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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT

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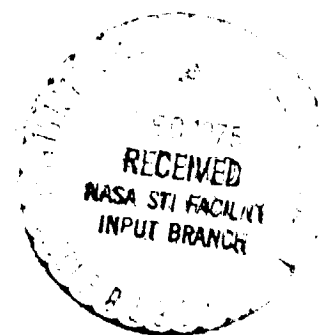
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WIND TUNNEL TEST OF THE 0.019 SCALE SPACE

SHUTTLE INTEGRATED VEHICLE (MODEL 14-OTS) IN

THE CALSPAN 8-FOOT TRANSONIC WIND TUNNEL (IA36)

VOLUME 2 OF 2

by

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Prepared under NASA Contract Number NAS9-13247

by

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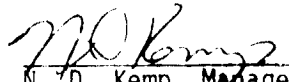
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WIND TUNNEL TEST OF THE 0.019 SCALE

SPACE SHUTTLE INTEGRATED VEHICLE (MODEL 14-OTS)

IN THE CALSPAN 8-FOOT TRANSONIC WIND TUNNEL

(IA36)

R. B. Hardin, R. R. Burrows, Rockwell International

ABSTRACT

This report contains information concerning a wind tunnel test of the 0.019 scale Space Shuttle Integrated Vehicle in the CALSPAN 8-foot Transonic Wind Tunnel. The test started 15 June 1973 and ended 22 June 1973 for a total of 80.5 charge hours. The test identification number is IA36.

The purpose of this test was to determine the effect of cold jet gas plumes generated from MPS and SRM nozzles on 1) six-component force and moment data, 2) wing static pressures, 3) wing hinge moment, 4) elevon hinge moment, 5) rudder hinge moment, and 6) orbiter MPS nozzle pressure loads. The effects of rudder deflection, nozzle gimbal angle, and plume size were also obtained.

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PLOTTED COEFFICIENTS SCHEDULE:

A. CAF, CAB, CN, CLMF vs ALPHA; CN vs CLMF

B. CY, CBL, CYN vs BETA; CY vs CYN

C. CP vs PHI

D. DELCP vs Y/DE

E. DELCP vs Z/DE

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INDEX OF DATA FIGURES (Concluded)

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NOMENCLATURE

SYMBOL	PLOT SYMBOL	DEFINITION
Ab_{ACPS}		Attitude control propulsion system base area, ft^2 (total for two)
Ab_{EOHT}		External tank total base area (cavity plus model base), ft^2
Ab_{OMS}		Base area of orbital maneuvering system (minus projected area of OMS nozzle), ft^2 (total for two)
Ab_{OMSN}		Nozzle exit area of OMS, ft^2 (total for two)
Ab_{ORB}		Total orbiter base area (minus projected exit area of MPS nozzles), ft^2
Ab_{SRM}		SRM shroud base area (minus projected nozzle exit area), (total for two), ft^2
Ac_{EOHT}		External tank cavity area, ft^2
Ac_{ORB}		Orbiter cavity area, ft^2
Ac_{SRM}		SRM cavity area, ft^2 (total for two)
A_{NORB}		Total exit area of (3) orbiter MPS nozzles, ft^2
A_{NSRM}		Total exit area of (2) SRM nozzles, ft^2
a		Distance from N_1 gage to MRP (positive forward of MRP), inches
b	BREF	Wing span or reference span; m, ft
b_w		Orbiter exposed wing panel semi-span (distance from exposed root chord to tip chord), inches
$\bar{c}_e$		Elevon M.A.C. length, inches
c.g.		Center of gravity
$\bar{c}_r$		Rudder M.A.C. length, inches

SYMBOL	PLOT SYMBOL	DEFINITION
$C_{A_{BAL}}$		Balance chord force coefficient (uncorrected)
$C_{A_{b_{ACPS}}}$		Attitude control maneuvering system base chord force coefficient
$C_{A_{b_{EOHT}}}$		External tank base chord force coefficient (based on $A_{b_{EOHT}}$)
$C_{A_{b_{EOHT}}}^{\star}$		External tank base chord force coefficient (based on $A_{C_{EOHT}}$)
$C_{A_{b_{OMS}}}$		Orbital maneuvering system base chord force coefficient
$C_{A_{b_{OMSN}}}$		Orbital maneuvering system nozzle base chord force coefficient
$C_{A_{b_{ORB}}}$		Orbiter base chord force coefficient (based on $A_{b_{ORB}}$)
$C_{A_{b_{ORB}}}^{\star}$		Orbiter base chord force coefficient (based on $A_{C_{ORB}}$)
$C_{A_{b_{SRM}}}$		SRM base chord force coefficient (based on $A_{b_{SRM}}$)
$C_{A_{b_{SRM}}}^{\star}$		SRM base chord force coefficient (based on $A_{C_{SRM}}$)
$C_{A_{C_{EOHT}}}$		External tank cavity chord force coefficient (corrected to base pressure)
$C_{A_{C_{EOHT}}}^{\star}$		External tank cavity chord force coefficient (based on $A_{C_{EOHT}}$ and EOHT cavity pressures)
$C_{A_{C_{ORB}}}$		Orbiter cavity chord force coefficient (corrected to base pressure)
$C_{A_{C_{ORB}}}^{\star}$		Orbiter cavity chord force coefficient (based on $A_{C_{ORB}}$ and orbiter cavity pressures)
$C_{A_{C_{SRM}}}$		SRM cavity chord force coefficient (corrected to base pressure)

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NOMENCLATURE (Continued)

SYMBOL	PLOT SYMBOL	DEFINITION
$C\overset{*}{A}C_{SRM}$		SRM cavity chord force coefficient (based on $A_{C_{SRM}}$ and SRM cavity pressures)
$C_{A_{N_{ORB}}}$		Orbiter nozzle chord force coefficient
$C_{A_{N_{SRM}}}$		SRM nozzle chord force coefficient
C_{A_f}	CAF	Ascent vehicle forebody chord force coefficient
C_{A_T}	CA	Ascent vehicle total chord force coefficient
C_{ℓ}	CBL	Ascent vehicle rolling moment coefficient
C_{B_W}	CBW	Wing bending moment coefficient about exposed root chord
C_{FR}	CFR	Resultant force of the normal force and side force for the nozzle, based on a reference area of 49.4 ft^2
$C_{H_{e_I}}$	CHEI	Inboard elevon hinge moment coefficient
$C_{H_{e_O}}$	CHEO	Outboard elevon hinge moment coefficient
$C_{H_{e_t}}$		Total elevon hinge moment coefficient, $C_{H_{e_I}} + C_{H_{e_O}}$
C_{H_r}	CHR	Rudder hinge moment coefficient
C_{H_W}	CHW	Wing torsional moment coefficient
C_{MR}	CMR	Resultant moment of the pitching moment and yawing moment for the nozzle, based on a reference area of 49.4 ft^2
C_{m_f}	CLMF	Ascent vehicle forebody pitching moment coefficient
C_{m_t}	CLM	Ascent vehicle total pitching moment coefficient

SYMBOL	PLOT SYMBOL	DEFINITION
$C_{m_{BAL}}$		Balance pitching moment coefficient
C_N	CN	Ascent vehicle normal force coefficient
C_{N_W}	CNW	Normal force coefficient on one exposed wing panel
$C_{P( )}$		Wing, base, cavity, and upper MPS nozzle pressure coefficient
C_Y	CY	Ascent vehicle side force coefficient
C_n	CYN	Ascent vehicle yawing moment coefficient
$\bar{c}_W$		Mean aerodynamic chord of exposed wing panel (based on S_W), inches
ΔC_p	DELCP	Incremental pressure distribution between opposite sides of the MPS nozzles (see table II, p. 59)
ΔSRMPR	DSRMPR	Incrementation SRM nozzle pressure ratio, (power on - power off)
ΔOPR	DOPR	Increment in orbiter nozzle pressure ratio, (power on - power off)
$\dfrac{\partial C_{af}}{\partial \delta_r}$	DDCAFR	Incremental effect of power on axial force coefficient rudder effectiveness
$\dfrac{\partial C_N}{\partial \delta_r}$	DDCNDR	Incremental effect of power on normal force coefficient rudder effectiveness
$\dfrac{\partial C_{mf}}{\partial \delta_r}$	DDCMFR	Incremental effect of power on pitching moment coefficient rudder effectiveness; includes forebody axial force
$\dfrac{\partial C_y}{\partial \delta_r}$	DDCYDR	Incremental effect of power on side-force coefficient rudder effectiveness

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NOMENCLATURE (Continued)

SYMBOL	PLOT SYMBOL	DEFINITION
$\Delta\dfrac{\partial C_\ell}{\partial \delta_r}$	DDCBLR	Incremental effect of power on rolling moment coefficient rudder effectiveness
$\Delta\dfrac{\partial C_n}{\partial \delta_r}$	DDCYNR	Incremental effect of power on yawing moment coefficient rudder effectiveness
$\dfrac{\partial C_{A_f}}{\partial \delta_r}$	DCAFDR	Forebody axial force coefficient rudder effectiveness
$\dfrac{\partial C_N}{\partial \delta_r}$	DCN/DR	Normal force coefficient rudder effectiveness
$\dfrac{\partial C_{m_f}}{\partial \delta_r}$	DCMFDR	Pitching moment coefficient rudder effectiveness; includes forebody axial force effect
$\dfrac{\partial C_y}{\partial \delta_r}$	DCY/DR	Side force coefficient rudder effectiveness
$\dfrac{\partial C_\ell}{\partial \delta_r}$	DCBLDR	Rolling moment coefficient rudder effectiveness
$\dfrac{\partial C_n}{\partial \delta_r}$	DCYNDR	Yawing moment coefficient rudder effectiveness
$\partial C_m / \partial (x/de)$	DCLM/DX DCNMDX	Local pitching moment coefficient distribution with respect to x/d_e
$\partial C_N / \partial (x/de)$	DCN/DX	Local normal force coefficient distribution with respect to x/d_e
$\partial C_Y / \partial (x/de)$	DCY/DX	Local side force coefficient distribution with respect to x/d_e
$\partial C_n / \partial (x/de)$	DCYN/DX DCYNDX	Local yawing moment coefficient distribution with respect to x/d_e

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NOMENCLATURE (Continued)

SYMBOL	PLOT SYMBOL	DEFINITION
$\dfrac{\partial C_N}{\partial \alpha}$	CN/A	Normal force coefficient derivative with respect to alpha
$\dfrac{\partial C_{m_f}}{\partial \alpha}$	CLMF/A	Pitching moment coefficient derivative with respect to alpha; includes forebody axial force effect
$\dfrac{\partial C_Y}{\partial \beta}$	CY/B	Side force coefficient derivative with respect to beta
$\dfrac{\partial C_\ell}{\partial \beta}$	CBL/B	Rolling moment coefficient derivative with respect to beta
$\dfrac{\partial C_n}{\partial \beta}$	CYN/B	Yawing moment coefficient derivative with respect to beta
$x(a.c.)_\alpha/\ell_v$	XAC/L	Longitudinal location of the aerodynamic center in pitch (XAC/L) and yaw (XYAC/L) based on an overall ascent vehicle length of 2175 inches F.S.
$x(a.c.)_\beta/\ell_v$	XYAC/L	
$\Delta\dfrac{\partial C_N}{\partial \alpha}$	DCN/A	Incremental effect of power on normal force coefficient alpha derivative
$\Delta\dfrac{\partial C_{m_f}}{\partial \alpha}$	DCMF/A	Incremental effect of power on pitching moment coefficient alpha derivative; forebody axial force effect included
$\Delta\dfrac{\partial C_Y}{\partial \beta}$	DCY/B	Incremental effect of power on side force coefficient beta derivative
$\Delta\dfrac{\partial C_\ell}{\partial \beta}$	DCBL/B	Incremental effect of power on rolling moment coefficient beta derivative

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NOMENCLATURE (Continued)

SYMBOL	PLOT SYMBOL	DEFINITION
$\Delta \dfrac{\partial C_n}{\partial \beta}$	DCYN/B	Incremental effect of power on rolling moment coefficient beta derivative
$\Delta(X_{a.c.}/\ell)$	DXAC/L	Incremental effect of power on longitudinal center of pressure
$\Delta(Y_{a.c.}/\ell)$	DYAC/L	Incremental effect of power on lateral-directional center of pressure
$\Delta(C_N)$	DCN	Incremental effect of power on normal force coefficient
$\Delta(C_{A_f})$	DCAF	Incremental effect of power on forebody axial force coefficient
$\Delta(C_{A_b})$	DCAB	Incremental effect of power on base force coefficient
$\Delta(C_{m_f})$	DCLMF	Incremental effect of power on pitching moment coefficient
$\Delta(C_Y)$	DCY	Incremental effect of power on side force coefficient
$\Delta(C_n)$	DCYN	Incremental effect of power on yawing moment coefficient
$\Delta(C_\ell)$	DCBL	Incremental effect of power on rolling moment coefficient
d		Distance from N_2 gage to MRP (positive forward of MRP) inches
d_e, D_{Ex}		Diameter of nozzle at exit plane
D_{IN}		Diameter of nozzle at entrance plane
D_T		Diameter of nozzle at throat
e		Distance from MRP to balance centerline (positive above MRP)

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SYMBOL	PLOT SYMBOL	DEFINITION
f		Distance from MRP to Y_1 gage (positive forward of MRP)
	GP1	Upper orbiter nozzle; degrees of pitch that the engine is gimballed from null
	GP2	Lower left orbiter nozzle; degrees of pitch that the engine is gimballed from null
	GP3	Lower right orbiter nozzle; degrees of pitch that the engine is gimballed from null
	GP4	Left SRM nozzle
	GP5	Right SRM nozzle
	GY1	Upper orbiter nozzle; degrees of yaw that the engine is gimballed from null
	GY2	Lower left orbiter nozzle; degrees of yaw that the engine is gimballed from null
	GY3	Lower right orbiter nozzle; degrees of yaw that the engine is gimballed from null
$G_{P( )}$		Gimbal pitch angle of nozzle from null position (denoted by subscript), degrees
$G_{Y( )}$		Gimbal yaw angle of nozzle from null position (denoted by subscript), degrees
g		Distance from MRP to Y_2 gage (positive forward of MRP), inches
i		Incidence angle of orbiter reference plane with respect to EOHT reference plane, degrees
$K_{e( )}$		Elevon hinge moment gage calibration factor (subscript denotes inboard or outboard) in.-lb/cts

NOMENCLATURE (Continued)

SYMBOL	PLOT SYMBOL	DEFINITION
$K_{r_{pe}}$		Ratio of measured to theoretical exit pressure P_e meas/P_{etrue}
K_r		Rudder hinge moment gage calibration factor, in.-lbs/cts
K_{ij}		Wing gage calibration factor, in.-lb/ct where i = gage number and j = order of K in the second degree calibration curve fit
ℓ		Rolling moment balance output, in.-lbs
ℓ_{REF}	LREF	Ascent vehicle moment reference length, inches
M_∞	MACH	Tunnel freestream Mach number
$m_{1,2,3,}$		Wing strain gage output (uncorrected for interactions) in.-lbs; where 1 is the inboard bending gage, 2 is the outboard bending gage, and 3 is the torsion gage
$M_{1,2,3}$		Wing strain gage output which has been corrected for interactions, in.-lbs; where 1 is the inboard bending gage, 2 is the outboard bending gage, and 3 is the torsion gage
$m'_{1,2,3}$		Wing strain gage output, raw data counts, where 1 is the inboard bending gage, 2 is the outboard bending gage, and 3 is the torsion gage
m'_e ( )		Elevon hinge moment gage output, raw data counts where subscript denotes inboard or outboard panel
	MPSRA	Orbiter MPS nozzle rotation angle, deg.
m'_r		Rudder hinge moment gage output, raw data counts

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SYMBOL	PLOT SYMBOL	DEFINITION
$MRP_{(X,Y,Z)}$	XMRP YMRP ZMRP	Moment reference point in X,Y,Z coordinates, inches
N_1		Forward normal force gage output, pounds
N_2		Aft normal force gage output, pounds
N_W		Normal force on exposed wing panel, pounds
P_c/P_t	OPR	Ratio of orbiter chamber pressure (P_c) to freestream total pressure
$P(\ )$		Model pressure, psfa
$P_{c(\ )}$		Nozzle plenum total pressure denoted by a subscript
$P_{e(\ )}$		Nozzle exit static pressure (denoted by a subscript), psia
P_∞		Tunnel static pressure, psfa
Power	POWER	Nozzle power supply: Power = 1.0 - ON Power = 0.0 - OFF
P_t		Tunnel total pressure, psfa
P_c/P_∞		Ratio of plenum total pressure to freestream pressure
P_e/P_t	SRMPR	Ratio of SRM nozzle exit pressure to freestream total pressure
P_c/P_t, $RP_{C(\ )}$		Ratio of plenum total pressure to P_t, denoted by a subscript
P_e/P_t, $RP_{e(\ )}$		Ratio of nozzle exit static pressure to P_t, denoted by a subscript
q	Q(PSF)	Tunnel freestream dynamic pressure, psf
R_n/L	RN/L	Tunnel Reynolds number, per foot
R		Orbiter MPS nozzle local radius.

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NOMENCLATURE (Continued)

SYMBOL	PLOT SYMBOL	DEFINITION
$r/r*$		Ratio of the local radius to the critical throat radius for the MPS nozzles
S_e		Elevon area (total one side) ft^2
S_N		Reference area for nozzle, ft^2
S_r		Rudder area, ft^2
S_{REF}	SREF	Ascent vehicle coefficient reference area, ft^2
S_w		Area of one exposed wing panel (includes glove area), ft
T_∞		Tunnel freestream static temperature, °R
T_t		Tunnel total temperature, °R
W_{F_i}		Model pressure weighting factor, either 0 or 1
X		Distance forward of nozzle exit plane
x/c	X/C	Chord-wise wing location, fraction of the chord
x/d_e	X/DE	Ratio of the distance forward of the nozzle exit to the internal diameter of the nozzle exit
$x/r*$		Ratio of the distance forward of the nozzle exit to the critical throat radius of the MPS nozzles
X_G		Distance from orbiter MPS nozzle gimbal to exit plane
X_{HL}		Orbiter station of exposed wing torsional axis, inches

SYMBOL	PLOT SYMBOL	DEFINITION
X_o		Orbiter longitudinal station, inches
X_T		EOHT longitudinal station, inches
X_W		Distance between wing bending gage m_1 and m_2, inches
Y_o		Orbiter spanwise station, inches
Y_{ROOT}		Orbiter spanwise station of exposed wing root chord, inches
Y_T		EOHT spanwise station, inches
Y		Spanwise distance from the exposed wing root chord to the m_2 gage (positive when m_2 gage is outboard of reference station), model scale inches
y/d_e	Y/DE	Lateral distance from the nozzle centerline as a fraction of the nozzle exit internal diameter
$Z_{b_{ACPS}}$		Vertical distance from centroid of ACPS base area to MRP (positive above MRP), inches
$Z_{b_{EOHT}}$		Vertical distance from centroid of EOHT base area to MRP (positive above MRP), inches
$Z_{b_{OMS}}$		Vertical distance from centroid of OMS base area to MRP (positive above MRP), inches
$Z_{b_{OMSN}}$		Vertical distance from centroid of OMS nozzle base area to MRP (positive above MRP), inches
$Z_{b_{ORB}}$		Vertical distance from centroid of ORB base area to MRP (positive above MRP), inches

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NOMENCLATURE (Continued)

SYMBOL	PLOT SYMBOL	DEFINITION
$Z_{b_{SRM}}$		Vertical distance from centroid of SRM base area to MRP (positive above MRP), inches
$Z_{C_{EOHT}}$		Vertical distance from centroid of EOHT cavity area to MRP (positive above MRP), inches
$Z_{C_{ORB}}$		Vertical distance from centroid of orbiter cavity area to MRP (positive above MRP), inches
$Z_{C_{SRM}}$		Vertical distance from centroid of SRM cavity area to MRP (positive above MRP), inches
$Z_{N_{ORB}}$		Vertical distance from centroid of orbiter nozzle exit area to MRP (positive above MRP), inches
$Z_{N_{SRM}}$		Vertical distance from centroid of SRM nozzle exit area to MRP (positive above MRP), inches
Z_o		Orbiter vertical station, inches
Z_T		EOHT vertical station, inches
z/d_e	Z/DE	Vertical distance from the nozzle centerline as a fraction of the nozzle exit internal diameter
α	ALPHA	Ascent vehicle angle of attack, degrees
β	BETA	Ascent vehicle angle of sideslip, degrees
γ		Angle of some radial direction in the base planes to the nozzle centerline, degrees
δ_a	AILRON	Aileron deflection defined as $(\delta_{a_L} - \delta_{a_R})/2$, degrees
δe	ELEVON	Elevon deflection defined as $(\delta_{e_L} + \delta_{e_R})/2$, degrees

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NOMENCLATURE (Continued)

SYMBOL	PLOT SYMBOL	DEFINITION
δ_r	RUDDER	Rudder deflection, degrees
$\left(\dfrac{\partial m_1}{\partial m_2}\right)_{(\,)} \cdots, \left(\dfrac{\partial m_3}{\partial m_1}\right)_{(\,)}$		First order interaction for wing bending and torsion gages. (1) denotes first order term in a 2nd degree curve fit, (2) denotes second order term in a 2nd degree curve fit
η	ETA	Spanwise wing station, fraction of the semi-span
θ_{FR}	THETAF	Angle of resultant force, CFR, measured from top centerline of the nozzle, positive in a clockwise direction when looking forward, degrees
θ_{MR}	THETAM	Angle of resultant moment, CMR, measured from top centerline of the nozzle, positive in a clockwise direction when looking forward, degrees
θ_N		Rotation angle of MPS nozzles in ball sockets (clockwise rotation as looking forward is positive), degrees
ϕ	PHI	Radial angle on MPS nozzles with $\phi = 0^{\circ}$ on top, $\phi = 90^{\circ}$ on the right side, $= 180^{\circ}$ on bottom, and $\phi = 270^{\circ}$ on left side, degrees
ψ	PSI	Nozzle angle of yaw, degrees

SUBSCRIPTS	DEFINITION
a	aileron
ACPS	attitude control propulsion system
b	base
e	elevon
EOHT	external oxygen hydrogen tank

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NOMF CLATURE (Concluded)

SUBSCRIPTS	DEFINITION
I	inboard
l	local
L	left
O	outboard
OMS	orbital maneuvering system
OMSN	orbital maneuvering system nozzle
ORB, o	orbiter
r	rudder
R	right
s	static conditions
SRM	solid rocket motor
t	total conditions
T	external tank
W	wing
1	top MPS nozzle
2	left MPS nozzle
3	right MPS nozzle
4	left SRM nozzle
5	right SRM nozzle
∞	free stream

CONFIGURATION DESCRIPTION

The model test was an 0.019 scale representation of the Rockwell/NASA configuration of the integrated space shuttle vehicle. The model had the capability of cold jet simulation of the jet plumes generated from the SRM and MPS nozzles.

The 2A orbiter was rigidly attached to the EOHT at 0° incidence with respect to the EOHT centerline. The orbiter MPS nozzles were attached to the non-metric air supply system which runs through the sting.

The 4 configuration EOHT was mounted on a 2.5 inch sting mounted internal balance.

The 4 configuration SRM's were rigidly attached to the EOHT with the SRM centerline on waterplane $X_T = 0.0"$ and butt plane $Y_T = 243"$ full scale. The nozzles could be deflected $\pm 7°$ pitch and $\pm 7°$ yaw.

The orbiter right-hand wing panel had forty (40) static pressure taps and the left-hand wing is attached to the orbiter by a single flexure three-component moment balance. The elevon panels on the left-hand wing panel were attached by means of single-component moment balances.

The vertical tail rudder had the capability of being deflected $\pm 10°$. The rudder panel was attached to the vertical tail by means of a single-component moment balance.

Nozzle Gimbal Angles & Reference Systems for Angle Measurement

The orbiter has three MPS nozzles whose individual gimbal points each define the origin of three separate reference systems. These reference systems are shown in figure 2.a. Positive indications of gimbal pitch and gimbal yaw are shown.

Figure 2.b. is an enlarged view of one of these reference systems. All three planes shown are at right angles to one another. The dashed lines are projections of the nozzle centerline onto the pitch and yaw planes of the reference system. (α) is the angle of pitch; either up or down. (ψ) is the angle of yaw; either right or left. Each nozzle is physically set to a gimbal angle of pitch and for yaw by an apparatus which measures (ϕ); some radial direction in the base plane, and (γ); the angle from that radial to the nozzle centerline. The ϕ sector is determined by (α) and (ψ):

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ϕ	α	ψ
270° to 360°	0° to +90°	0° to +90°
180° to 270°	0° to -90°	0° to +90°
90° to 180°	0° to -90°	0° to -90°
0° to 90°	0° to +90°	0° to -90°

All test programs for this model use the symbol Gp as the angle that the centerline of the nozzle is pitched (up or down) and Gy as the angle that the centerline of the nozzle is yawed (right or left). Up and left are both in the positive direction.

Since all angles are defined from the nozzle null position, the relationships are as follows:

(1) $G_p = \alpha - \alpha null$

(2) $G_y = \psi - \psi null$

Where $\alpha null$ is the angle that the nozzle centerline is pitched from the reference system axis to null position and ψ_{null} is the angle that the nozzle centerline is yawed from the reference system axis to null position (figure 2.b.).

$\alpha null$ and ψ_{null} are specified for each MPS nozzle in the dimensional data for N9 and N10. It should be noted here that a side view of the of the orbi. ~ shows that the nozzle base plane is rotated 13° from vertical. Therefore, the three independent nozzle reference systems for nozzle pitch differ from the orbiter's X_o, Y_o, Z_o reference system by a 13^0 rotation angle from vertical.

The following equations were used to convert nozzle gimbal angles α and ψ to ϕ and γ, the two angles that the fixture uses to duplicate the given angles:

(1) $TAN\phi = \dfrac{-TAN\psi}{TAN\alpha}$

(2) $TAN\gamma = \dfrac{SIN\phi + COS\phi}{TAN\alpha - TAN\psi}$

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Also, for the following fixture settings, the angle $\theta = 90 - \gamma$.

Top Nozzle:

Aero Setting		Fixture Setting	
		ϕ	θ
Null & Firing; G_y, $G_p = 0$		$0°$	$+3°$
	$G_p = 11$	$0°$	$+14°$
	$G_p = -11$	$180°$	$8°$
	$G_y = 9$	$288°$	$9.5°$
	$G_y = -9$	$71.7°$	$9.5°$
	$G_p = 11$, G_y -9	$32.5°$	$16.5°$

Bottom Left Nozzle

Aero Setting		Fixture Setting	
		ϕ	θ
Firing;	$G_y = -3.5$	$180°$	$3°$
	$G_p = 11$	$336.5°$	$8.7°$
	$G_p = -11$	$193.6°$	$14.4°$
	$G_y = 9$	256.7	$12.8°$
	$G_y = -9$	$118.3°$	$6.2°$
	$G_p = 11, G_y = -9$	34.42	$9.7°$
	$G_p, G_y = 0$	$229.4°$	$4.6°$

Bottom Right Nozzle:

Aero Setting		Fixture Setting	
		ϕ	θ
Firing;	$G_y = 3.5$	$180°$	$3°$
	$G_p = 11$	$23.5°$	$8.7°$
	$G_p = -11$	$166.2°$	$14.4°$
	$G_y = 9$	$241.8°$	$6.2°$
	$G_y = -9$	$103.3°$	$12.8°$
	$G_p = 11$, $G_p = -9$	$57.7°$	$14.7°$
	$G_y, G_p = 0$	$130.6°$	$4.6°$

Model Nomenclature

The following nomenclature will be used to designate model components:

Component	Definition
B_{10}	Body
C_5	Canopy
D_7	Manipulator Housing
W_{87}	Wing
E_{18}	Elevon
V_5	Vertical Tail
R_5	Rudder
M_3	OMS Pod
N_8	OMS NOZZLES
N_9	ORBITER NOZZLES

Component	Definition
N_{10}	ORBITER PRESSURE NOZZLES
F_4	Body Flap
X_8	Transition Strip
S_{10}	SRM
N_{17}	SRM Nozzle
T_{10}	EOHT

The following table shows OTS configurations and their corresponding descriptions:

Configuration	Description
$O_1T_1S_1$	Baseline (2A): B_{10}, C_5, D_7, F_4, M_3, N_8, N_9, N_{17}, V_5, R_5, W_{87}, E_{18}, X_8, S_{10}, T_{10}
$O_2T_1S_1$	Baseline (2A) with static taps on three MPS nozzles: B_{10}, C_5, D_7, F_4, M_3, N_8, N_{10}, N_{17}, V_5, R_5, W_{87}, E_{18}, X_8, S_{10}, T_{10}

TEST FACILITY DESCRIPTION

The 8-Foot Transonic Wind Tunnel was placed in operation in December of 1956 as the result of modernizing the 12-Foot Variable Density Wind Tunnel to extend its operation through the transonic range. The tunnel has a perforated throat and an auxiliary pumping system for plenum pumping. The continuous circuit tunnel is capable of operating from 1/6 to 2-1/2 atmospheres total pressure, thereby providing a wide range of test Reynolds numbers as well as Mach numbers. The range of operating pressures is necessarily limited by the total power available at the higher Mach numbers. Pumping the tunnel to these conditions is done by four centrifugal compressors for above one atmosphere testing and by seven compressors for below one atmosphere. Evacuation of the tunnel to 800 psf total pressure can be accomplished by use of the auxiliary compressor from atmospheric pressure. This procedure takes approximately 8 minutes. Consequently, at least an initial expenditure of time is necessary to bring the tunnel to the desired operating conditions. During model changes, two gate valves isolate the test section from the tunnel proper, making it necessary to bring only the test sphere to atmospheric conditions. By careful planning of the test program, it is then possible to reduce pumping time to a minimum.

The test section of the tunnel is a removable cart. In many instances this feature permits the installation of a model prior to testing, resulting in a saving of tunnel time. Three carts are in active use: a sting cart for the testing of sting-mounted, full-span models, a reflection plane cart for use with semi-span reflection plane models, and the fairing cart for full-span models mounted from a plate.

Low speed airflow calibrations have been performed for free-stream velocities from 5 to 90 feet per second. Velocities in this range are steady and can be set accurately using a fixed main drive blade angle and varying the rpm. Low speed tests may be run within the operating tunnel densities of 1/6 of an atmosphere to 2.5 atmospheres.

More explicit details of the tunnel and its operational characteristics can be found in the 8-Foot Transonic Wind Tunnel Report WTO-300 at Cornell Aeronautical Laboratory.

TESTING AND PROCEDURE

PRESSURE INSTRUMENTATION

The right hand orbiter wing panel was instrumented with forty (40) static pressure taps. A total of sixteen (16) base and cavity taps were installed for use in correcting chord force measurements.

The orbiter MPS nozzles each had twelve (12) external static taps at various radial and longitudinal locations.

JET PLUME SIMULATION

The CALSPAN high pressure air supply was utilized for cold jet plume simulation of the jet plumes emanating from the orbiter MPS and SRM nozzles. The orbiter MPS and SRM nozzles had independent controls for separate throttling of each system of nozzles. Plume shapes for various Mach numbers were produced by setting specific values of P_c/P_t for the orbiter nozzles and P_e/P_t for the SRM nozzles. An error in the calibration of the air supply system resulted in inaccurate settings of the SRM nominal pressure ratios during the test. Listed below are theoretical and actual values of the pressure ratios.

NOZZLE	M_∞	P_c/P_∞ THEORETICAL (NOMINAL)	P_c/P_∞ ACTUAL	P_e/P_t THEORETICAL (NOMINAL)	P_e/P_t ACTUAL	P_c/P_t THEORETICAL (NOMINAL)	P_c/P_t ACTUAL
Orbiter	.9	47.87	47.87	.3370	.3370	28.31	28.31
Orbiter	1.2	93.77	93.77	.4310	.4310	36.20	36.20
SRM	.9	155	167	1.878	2.02	91.97	98.9
SRM	1.2	266	308	2.105	2.33	102.703	119.0

FORCE INSTRUMENTATION

The EOHT was mounted on the CALSPAN 2.5 inch Task MK III six-component internal balance. The model angle of attack was indicated by an NASA/AMES dangleometer and angle of sideslip was indicated by the sector read out plus sting/balance deflections. The sting was mounted on the CALSPAN double roll mechanism.

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TESTING AND PROCEDURE (Concluded)

HINGE MOMENT INSTRUMENTATION

The left hand wing panel was mounted on a single-flexure, three-component moment balance. The two elevons of the left hand wing panel and the rudder were each instrumented with single-component moment balances.

REMARKS

Data were obtained at angles of attack from -8° to +6° at β = 0°, and angles of sideslip from -6° to +6° at α = 0° for run number 15 through 116. The high pressure supply hoses were removed from the sting for runs 117 through 120 so that angle of attack could be obtained from -8° to +8° at β = 0° and angle of sideslip from -8° to +8° at α = 0°.

The MPS nozzle pressure loads were obtained during runs 19 through 78. Wing and top MPS pressure (θ_N = 0°) data were obtained during runs 81 through 120. For runs 81 through 120, wing taps 106, 107, 108, 109, 214, 215, 309, 310, 412 were not measured so that top MPS nozzle taps 1, 3, 4, 5, 6, 7, 9, 10, 11 and 12 could be measured. The high pressure air supply hoses were removed from the test section during runs 117 through 120 to determine if the hoses affected the force and pressure data.

DATA REDUCTION

The balance data were reduced to coefficient form and corrected for all appropriate tunnel corrections, sting/balance deflections, and tares.

The reference area, S_{REF}, for all ascent vehicle coefficients is the theoretical wing total planform area. The reference length, ℓ_{REF}, for the pitching, rolling, and yawing moment coefficients is the fuselage body length. Chord force and pitching moment balance coefficients were adjusted for the effect of cavity pressures according to the following equations:

Ascent vehicle total chord force coefficient (C_A):

$$C_{A_T} = C_{A_{BAL}} + C_{A_{C_{ORB}}} + C_{A_{C_{EOHT}}} + C_{A_{C_{SRM}}} + C_{A_{N_{ORB}}} + C_{A_{N_{SRM}}}$$

where:

$$C_{A_{C_{ORB}}} = -C_{A_{C_{ORB}}}^{\star} + C_{A_{b_{ORB}}}^{\star}$$

$$C_{A_{C_{EOHT}}} = -C_{A_{C_{EOHT}}}^{\star} + C_{A_{b_{EOHT}}}^{\star}$$

$$C_{A_{C_{SRM}}} = -C_{A_{C_{SRM}}}^{\star} + C_{A_{b_{SRM}}}^{\star}$$

$$C_{A_{C_{ORB}}}^{\star} = -\frac{\sum_{i=101}^{102} C_{P_i}}{\sum_{i=101}^{102} WF_i} \frac{A_{C_{ORB}}}{S_{REF}}$$

$$C_{A_{b_{ORB}}}^{\star} = -\frac{\sum_{i=201}^{204} C_{P_i}}{\sum_{i=201}^{204} WF_i} \frac{A_{C_{ORB}}}{S_{REF}}$$

$$C_{A_{N_{ORB}}} = -\frac{\sum_{i=201}^{204} C_{P_i}}{\sum_{i=201}^{204} WF_i} \frac{A_{N_{ORB}}}{S_{REF}}$$

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$$C\overset{\star}{A}C_{EOHT} = - \frac{\overset{304}{\underset{i=303}{\Sigma}} C_{P_i}}{\overset{304}{\underset{i=303}{\Sigma}} WF_i} \quad \frac{A_{C_{EOHT}}}{S_{REF}}$$

$$C\overset{\star}{A}b_{EOHT} = - \frac{\overset{302}{\underset{i=301}{\Sigma}} C_{P_i}}{\overset{302}{\underset{i=301}{\Sigma}} WF_i} \quad \frac{A_{C_{EOHT}}}{S_{REF}}$$

$$C\overset{\star}{A}C_{SRM} = - \frac{\overset{104}{\underset{i=103}{\Sigma}} C_{P_i}}{\overset{104}{\underset{i=103}{\Sigma}} WF_i} \quad \frac{A_{C_{SRM}}}{S_{REF}}$$

$$C\overset{\star}{A}b_{SRM} = \frac{\overset{404}{\underset{i=401}{\Sigma}} C_{P_i}}{\overset{404}{\underset{i=401}{\Sigma}} WF_i} \quad \frac{A_{C_{SRM}}}{S_{REF}}$$

$$C_{A}N_{SRM} = \frac{\overset{404}{\underset{i=401}{\Sigma}} C_{P_i}}{\overset{404}{\underset{i=401}{\Sigma}} WF_i} \quad \frac{A_{N_{SRM}}}{S_{REF}}$$

Ascent vehicle total pitching moment coefficient (C_{m_t}):

$$C_{m_t} = C_{m_{BAL}} - C_{A_{C_{ORB}}}^{\star}\left[\frac{z_{C_{ORB}}}{\ell_{REF}}\right] + C_{A_{b_{ORB}}}^{\star}\left[\frac{z_{C_{ORB}}}{\ell_{REF}}\right]$$

$$+ C_{A_{N_{ORB}}}\left[\frac{z_{N_{ORB}}}{\ell_{REF}}\right] - C_{A_{C_{EOHT}}}^{\star}\left[\frac{z_{C_{EOHT}}}{\ell_{REF}}\right] + C_{A_{b_{EOHT}}}^{\star}\left[\frac{z_{C_{EOHT}}}{\ell_{REF}}\right]$$

$$- C_{A_{C_{SRM}}}^{\star}\left[\frac{z_{C_{SRM}}}{\ell_{REF}}\right] + C_{A_{b_{SRM}}}^{\star}\left[\frac{z_{C_{SRM}}}{\ell_{REF}}\right] + C_{A_{N_{SRM}}}\left[\frac{z_{N_{SRM}}}{\ell_{REF}}\right]$$

$$C_{m_T} = C_{m_{BAL}} + C_{A_{C_{ORB}}}\left[\frac{z_{C_{ORB}}}{\ell_{REF}}\right] + C_{A_{N_{ORB}}}\left[\frac{z_{N_{ORB}}}{\ell_{REF}}\right] + C_{A_{C_{EOHT}}}\left[\frac{z_{C_{EOHT}}}{\ell_{REF}}\right]$$

$$+ C_{A_{C_{SRM}}}\left[\frac{z_{C_{SRM}}}{\ell_{REF}}\right] + C_{A_{N_{SRM}}}\left[\frac{z_{N_{SRM}}}{\ell_{REF}}\right]$$

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Forebody chord force coefficient (C_{A_f}):

$$C_{A_f} = C_{A_T} - C_{A_{b_{ORB}}} - C_{A_{b_{EOHT}}} - C_{A_{b_{SRM}}}$$

$$- C_{A_{b_{OMS}}} - C_{A_{b_{OMSN}}} - C_{A_{b_{ACPS}}}$$

where:

$$C_{A_{b_{ORB}}} = - \frac{\displaystyle\sum_{i=201}^{204} C_{P_i}}{\displaystyle\sum_{i=201}^{204} WF_i} \frac{A_{b_{ORB}}}{S_{REF}}$$

$$C_{A_{b_{EOHT}}} = - \frac{\displaystyle\sum_{i=301}^{302} C_{P_i}}{\displaystyle\sum_{i=301}^{302} WF_i} \frac{A_{b_{EOHT}}}{S_{REF}}$$

$$C_{A_{b_{SRM}}} = - \frac{\displaystyle\sum_{i=401}^{404} C_{P_i}}{\displaystyle\sum_{i=401}^{404} WF_i} \frac{A_{b_{SRM}}}{S_{REF}}$$

$$C_{A_{b_{OMSN}}} = (C_{P305}) \frac{A_{b_{OMSN}}}{S_{REF}}$$

$$C_{A_{b_{OMS}}} = -(C_{P\,105}) \frac{A_{b_{OMS}}}{S_{REF}}$$

$$C_{A_{b_{ACPS}}} = -(C_{P405}) \frac{A_{b_{ACPS}}}{S_{REF}}$$

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Ascent vehicle forebody pitching moment (C_{Mf}):

$$C_{m_f} = C_{m_t} - C_{A_{b_{ORB}}} \left[\frac{z_{b_{ORB}}}{\ell_{REF}} \right] - C_{A_{b_{EOHT}}} \left[\frac{z_{b_{EOHT}}}{\ell_{REF}} \right]$$

$$- C_{A_{b_{SRM}}} \left[\frac{z_{b_{SRM}}}{\ell_{REF}} \right] - C_{A_{b_{OMS}}} \left[\frac{z_{b_{OMS}}}{\ell_{REF}} \right]$$

$$- C_{A_{b_{OMSN}}} \left[\frac{z_{b_{OMSN}}}{\ell_{REF}} \right] - C_{A_{b_{ACPS}}} \left[\frac{z_{b_{ACPS}}}{\ell_{REF}} \right]$$

Wing, base, cavity, and upper MPS nozzle pressure coefficient (C_{P_i}):

$$C_{P_i} = \left(\frac{P_i - P_o}{q} \right)$$

Component hinge moment data:

The left hand wing panel was instrumented with a single-flexure three component moment balance. This balance was temperature compensated and gave accurate measurements at all tunnel temperatures.

The two elevons of the left hand wing panel and the rudder were each instrumented with single component moment balances. These balances were not temperature compensated and experienced large zero shifts during the test. During any specific pitch or yaw run, the zero shifts were negligible. However, during a series of pitch and yaw runs, the zero shifts happened at a point that cannot be determined. The sensitivity did not change. The tabulated data for these components ($C_{H_{e_I}}$, $C_{H_{e_O}}$, C_{H_r}) are presented and should be used for defining magnitude of the moment load.

Elevon hinge moment (C_{H_e}):

$$C_{H_{a_I}} = \frac{m'_{e_I} K_{e_I}}{q \, S_e \, \overline{c}_e} \quad \text{(Inboard)}$$

$$C_{H_{e_O}} = \frac{m'_{e_O} K_{e_O}}{q\, S_e\, \bar{c}_e} \quad \text{(outboard)}$$

$$C_{H_{e_T}} = C_{H_{e_I}} + C_{H_{e_O}}$$

where:

$m' =$ raw cts

$K =$ calibration factor $\left(\text{in.-lb/cts}\right)$

Rudder hinge moment (C_{H_r}):

$$C_{H_r} = \frac{m'_r K_r}{q\, S_r\, \bar{c}_r}$$

Wing bending and torsion:

Convert raw data counts to in.-lbs: (basic slopes)

where:

$m' =$ raw data cts

$K_{ij} =$ calibration factor $\left(\text{in.-lb/ct}\right)$ and $i =$ gage number
$j =$ order of term of second degree curve fit

$$m_1 = m'_1 K_{11} + (m'_1)^2 K_{12} \quad \text{(inboard gage)}$$

$$m_2 = m'_2 K_{21} + (m'_3)^2 K_{22} \quad \text{(outboard gage)}$$

$$m_3 = m'_3 K_{31} + (m_3)^2 K_{32} \quad \text{(torsion gage)}$$

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Taking interactions into account:

$$M_1 = m_1 - \left[\left(\frac{\delta m_1}{\delta m_2}\right)_1 m_2 + \left(\frac{\delta m_1}{\delta m_2}\right)_2 (m_2)^2\right] - \left[\left(\frac{\delta m_1}{\delta m_3}\right)_1 m_3 + \left(\frac{\delta m_1}{\delta m_3}\right)_2 (m_3)^2\right]$$

$$M_2 = m_2 - \left[\left(\frac{\delta m_2}{\delta m_1}\right)_1 m_1 + \left(\frac{\delta m_2}{\delta m_1}\right)_2 (m_1)^2\right] - \left[\left(\frac{\delta m_2}{\delta m_3}\right)_1 m_3 + \left(\frac{\delta m_2}{\delta m_3}\right)_2 (m_3)^2\right]$$

$$M_3 = m_3 - \left[\left(\frac{\delta m_3}{\delta m_1}\right)_1 m_1 + \left(\frac{\delta m_3}{\delta m_1}\right)_2 (m_1)^2\right] - \left[\left(\frac{\delta m_3}{\delta m_2}\right)_1 m_2 + \left(\frac{\delta m_3}{\delta m_2}\right)_2 (m_2)^2\right]$$

Determine loads and coefficients:

$$N_W = \left(\frac{M_1 - M_2}{X_W}\right)$$

$$C_{N_W} = \frac{N_W}{q \ S_W}$$

$$C_{B_W} = \frac{(M_2 + Y_W \ N_W)}{q \ S_W \ b_W}$$

$$C_{H_W} = \frac{M_3}{q \ S_W \ C_W}$$

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Jet plume parameters ($RP_c(\ )$, $RP_{e(\ )}$):

$$RP_{c(\ )} = 144 \frac{P_{c(\ )}}{P_T}$$

$$RP_{e(\ )} = 144 \frac{P_{e(\ )}}{P_T} \left[\frac{1}{K_{r_{pe}}} \right]$$

Reference Dimensions and Constants

	Full Scale	Model Scale
Ab_{ACPS}	28.42 ft^2	0.01026 ft^2
Ab_{EOHT}	572.56 ft^2	0.2067 ft^2
Ab_{OMS}	16.973 ft^2	0.00613 ft^2
Ab_{OMSN}	25.( ) ft^2	0.00925 ft^2
Ab_{ORB}	226.75 ft^2	0.08186 ft^2
Ab_{SRM}	183.01 ft^2	0.0661 ft^2
AC_{EOHT}	366.5 ft^2	0.132 ft^2
AC_{ORB}	302.40 ft^2	0.1092 ft^2
AC_{SRM}	181.378 ft^2	0.0654 ft^2
AN_{ORB}	141.44 ft^2	0.0511 ft^2
AN_{SRM}	219.02 ft^2	0.0791 ft^2

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	Full Scale	Model Scale
b_w	363.341	6.903
$\bar{c}_e$	90.7 in	1.723 in.
$\bar{c}_r$	74.4 in.	1.414 in.
$\bar{c}_w$	513.474 in.	9.756 in
d	—	-11.283 in.
e	—	0.0 in.
f	—	-3.533 in.
g	—	-10.533 in.
K_{e_I}	(Pos) = 26.20 $\frac{\text{in. -lb-v}}{\text{mv}}$	(Neg) = 26.39 $\frac{\text{in. -lb-v}}{\text{mv}}$
K_{e_o}	(Pos) = 27.03 $\frac{\text{in. -lb-v}}{\text{mv}}$	(Neg) = 27.42 $\frac{\text{in. -lb-v}}{\text{mv}}$
$K_{r_{pe}}$	(ORB) = 1.060	(SRM) = TBD
K_r	(Pos) = 20.80 $\frac{\text{in. -lb-v}}{\text{mv}}$	(Neg) = 20.885 $\frac{\text{in. -lb-v}}{\text{mv}}$
K_{11}	(Pos) = 463.1672 $\frac{\text{inlbv}}{\text{mv}}$	(Neg) = 476.3954 $\frac{\text{inlbv}}{\text{mv}}$
K_{12}	(Pos) = 0.0	(Neg) = 0.0
K_{21}	(Pos) = 436.8877 $\frac{\text{inlbv}}{\text{mv}}$	(Neg) = 437.4474 $\frac{\text{inlbv}}{\text{mv}}$
K_{22}	(Pos) = 0.0	(Neg) = 0.0
K_{31}	(Pos) = 539.9926 $\frac{\text{inlbv}}{\text{mv}}$	(Neg) = 538.9718 $\frac{\text{inlbv}}{\text{mv}}$
K	(Pos) = 0.0	(Neg) = 0.0
ℓ_{REF}	1328.0 in	25.232 in.

	Full Scale	Model Scale
S_e	210.0 ft^2 per wing panel	0.0758 ft^2
S_r	106.38 ft^2	0.0384 ft^2
S_W	1006.5 ft^2	0.363 ft^2
S_{REF}	2690.0 ft^2	0.971 ft^2
X_W	—	0.5638 in.
X_{HL}	1250.79 in.	23.765 in.
y_W	—	0.1423 in.
Y_{ROOT}	105.0 in.	1.995 in.
$Z_{b_{ACPS}}$	402.987 in.	7.656 in.
$Z_{b_{EOHT}}$	0.0	0.0
$Z_{b_{OMS}}$	415.505 in.	7.895 in.
$Z_{b_{OMSN}}$	437.94 in.	8.321 in.
$Z_{b_{ORB}}$	310.0 in.	5.89 in.
$Z_{b_{SRM}}$	0.0	0.0
$Z_{c_{EOHT}}$	0.0	0.0
$Z_{c_{ORB}}$	349.66 in.	6.64 in.
$Z_{c_{SRM}}$	0.0	0.0

	Full Scale	Model Scale
$Z_{N_{ORB}}$	335.0 in.	6.36 in
$Z_{N_{SRM}}$	0.0	0.0
$\left(\dfrac{\partial M_1}{\partial M_2}\right)_1$	(Pos) = 0.0	(Neg) = 0.0

	Positive	Negative
$\left(\dfrac{\partial M_1}{\partial M_2}\right)_2$	0.0	0.0
$\left(\dfrac{\partial M_1}{\partial M_3}\right)_1$	$-0.010562 \dfrac{inlbv}{mv}$	$-0.004132 \dfrac{inlbv}{mv}$
$\left(\dfrac{\partial M_1}{\partial M_3}\right)_2$	0.0	0.0
$\left(\dfrac{\partial M_2}{\partial M_1}\right)_1$	0.0	0.0
$\left(\dfrac{\partial M_2}{\partial M_1}\right)_2$	0.0	0.0
$\left(\dfrac{\partial M_2}{\partial M_3}\right)_1$	$0.014458 \dfrac{inlbv}{mv}$	$0.018206 \dfrac{inlbv}{mv}$
$\left(\dfrac{\partial M_2}{\partial M_3}\right)_2$	0.0	0.0

	Positive	Negative
$\left(\dfrac{\partial M_3}{\partial M_1}\right)_1$	$0.022277 \ \dfrac{inlbv}{mv}$	$0.029935 \ \dfrac{inlbv}{mv}$
$\left(\dfrac{\partial M_3}{\partial M_1}\right)_2$	0.0	0.0
$\left(\dfrac{\partial M_3}{\partial M_2}\right)_1$	$-0.031554 \ \dfrac{inlbv}{mv}$	$-0.034948 \ \dfrac{inlbv}{mv}$
$\left(\dfrac{\partial M_3}{\partial M_2}\right)_2$	0.0	0.0

The orbiter MPS nozzle pressure data were integrated using Chrysler Corporation's SADSAC program to obtain the load distributions along the nozzle axis and the total nozzle loads. Integration of the pressure data (first integration) was performed according to the following equations (see Figure 8):

$$\frac{dC_N}{d(x/d_e)} = -\frac{d_e}{S_N} \int_0^{360} C_p \, d(R \sin \phi)$$

$$\frac{dC_m}{d(x/d_e)} = -\frac{d_e}{S_N} \int_0^{360} C_p \left(\frac{x}{d_e} - \frac{x_G}{d_e} \right) d(R \sin \phi)$$

$$\frac{dC_Y}{d(x/d_e)} = \frac{d_e}{S_N} \int_0^{360} C_p \, d(R \cos \phi)$$

$$\frac{dC_n}{d(x/d_e)} = \frac{d_e}{S_N} \int_0^{360} C_p \left(\frac{x}{d_e} - \frac{x_G}{d_e} \right) d(R \cos \phi)$$

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where:

	Full Scale	Model Scale
S_N	49.4 ft^2	.01783 ft^2
d_e	90.73 in.	1.7238 in.
X_G	158 in.	3.002 in.

These integrations were performed on the curve fits of C_p vs. PHI displayed on plot pages 73-144. The resultant local loads coefficients are plotted against x/d_e on plot pages 289-384.

The integrations for total nozzle C_N, C_m, C_Y, and C_n (second integration) were performed according to the following equations:

$$C_N = \int_0^{1.0} \frac{dC_N}{d(x/d_e)} \, d(x/d_e)$$

$$C_m = \int_0^{1.0} \frac{dC_m}{d(x/d_e)} \, d(x/d_e)$$

$$C_Y = \int_0^{1.0} \frac{dC_Y}{d(x/d_e)} \, d(x/d_e)$$

$$C_n = \int_0^{1.0} \frac{dC_n}{d(x/d_e)} \, d(x/d_e)$$

The load distributions were extended to the limits of integration by assuming zero values for the local load coefficients at both limits. These added end points were then included in the curve fit used for the second integration. The load distribution plots do not include the integration limits and therefore the plot fairings will not be the same as the curve fits used for integration.

TABLE I

TEST : CALSPAN T14-053			DATE : 22 June '73
TEST CONDITIONS			

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
.9	2.75×10^6	480	135
1.2	2.25×10^6	440	140

BALANCE UTILIZED: 2.5 INCH TASK MK III

	CAPACITY:	ACCURACY:	COEFFICIENT TOLERANCE:
NF	1400 lbs	.5%	
YF	700 lbs	.5%	
AF	280 lbs	.5%	
NA	1400 lbs	.5%	
YA	700 lbs	.5%	
RM	2000 in-lbs	.5%	

COMMENTS:

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TABLE II

DATASET COLLATION SUMMARY

TOP NOZZLE **M = 0.9**

θ ~ DEGREES OF FIXED NOZZLE	DISTANCE FORWARD OF NOZZLE EXIT					
	x/D = .058	x/D = .232	x/D = .406	x/D = .580	x/D = .753	x/D = .928
0	0 / 1 28 26 29 27	30 / 12 36 35 37 38	60 / 11 44 47 45 46	90 / 10 54 52 55 53	120 / 9 63 66 64 65	150 / 8 73 71 74 72
30	30 / 1 36 35 37 38	60 / 12 44 47 45 46	90 / 11 54 52 55 53	120 / 10 63 66 64 65	150 / 9 73 71 74 72	0 / 2 28 26 29 27
60	60 / 1 44 47 45 46	90 / 12 54 52 55 53	120 / 11 63 66 64 65	150 / 10 73 71 74 72	0 / 3 28 26 29 27	30 / 2 36 35 37 38
90	90 / 1 54 52 55 53	120 / 12 63 66 64 65	150 / 11 73 71 74 72	0 / 4 28 26 29 27	30 / 3 36 35 37 38	60 / 2 44 47 45 46
120	120 / 1 63 66 64 65	150 / 12 73 71 74 72	0 / 5 28 26 29 27	30 / 4 36 35 37 38	60 / 3 44 46 45 47	90 / 2 54 52 55 53
150	150 / 1 73 71 74 72	0 / 6 28 26 29 27	30 / 5 36 35 37 38	60 / 4 44 47 45 46	90 / 3 54 52 55 53	120 / 2 63 66 64 65
180	0 / 7 28 26 29 27	30 / 6 36 35 37 38	60 / 5 44 47 45 46	90 / 4 54 52 55 53	120 / 3 63 66 64 65	150 / 2 73 71 74 72
210	30 / 7 36 35 37 38	60 / 6 44 47 45 46	90 / 5 54 52 55 53	120 / 4 63 66 64 65	150 / 3 73 71 74 72	0 / 8 28 26 29 27
240	60 / 7 44 47 45 46	90 / 6 54 52 55 53	120 / 5 63 66 64 65	150 / 4 73 71 76 72	0 / 9 28 26 29 27	30 / 8 36 35 37 38
270	90 / 7 54 52 55 53	120 / 6 63 66 64 65	150 / 5 73 71 74 72	0 / 10 28 26 29 27	30 / 9 36 35 38	60 / 8 44 47 45 46
300	120 / 7 63 66 64 65	150 / 6 73 71 74 72	0 / 11 28 26 29 27	30 / 10 36 35 37 38	60 / 9 44 47 45 46	90 / 8 54 52 55 53
330	150 / 7 73 71 74 72	0 / 12 28 26 29 27	30 / 11 36 35 37 38	60 / 10 44 47 45 46	90 / 9 54 52 55 53	120 / 8 63 66 64 65

Legend:

MPSRA*	Tap No.
Run No. for RUFA03	Run No. for RUFA01
Run No. for RUFA04	Run No. for RUFA02

* MPS NOZZLE ROTATION ANGLE

TABLE II (Continued)

BOTTOM LEFT NOZZLE   M: 0.9

Angle (deg)	X/D=.058		X/D=.232		X/D=.406		X/D=.580		X/D=.753		X/D=.928	
0	0	13	30	24	60	23	90	22	120	21	150	14
	28	26	36	35	44	47	54	52	63	66	73	71
	29	27	37	38	45	46	55	53	64	65	74	72
30	30	13	60	24	90	23	120	22	150	21	0	14
	36	35	44	47	54	52	63	66	73	71	28	26
	37	38	45	46	55	53	64	65	74	72	29	27
60	60	13	90	24	120	23	150	22	0	15	30	14
	44	47	54	52	63	66	73	71	28	26	36	35
	45	46	55	53	64	65	74	72	29	27	37	38
90	90	13	120	24	150	23	0	16	30	15	60	14
	54	52	63	66	73	71	28	26	36	35	44	47
	55	53	64	65	74	72	29	27	37	38	45	46
120	120	13	150	24	0	17	30	16	60	15	90	14
	63	66	73	71	28	26	36	35	44	46	54	52
	64	65	74	72	29	27	37	38	45	47	55	53
150	150	13	0	18	30	17	60	16	90	15	120	14
	73	71	28	26	36	35	44	47	54	52	63	66
	74	72	29	27	37	38	45	46	55	53	64	65
180	0	19	30	18	60	17	90	16	120	15	150	14
	28	26	36	35	44	47	54	52	63	66	73	71
	29	27	37	38	45	46	55	53	64	65	74	72
210	30	19	60	18	90	17	120	16	150	15	0	20
	36	35	44	47	54	52	63	66	73	71	28	26
	37	38	45	46	55	53	64	65	74	72	29	27
240	60	19	90	18	120	17	150	16	0	21	30	20
	44	47	54	52	63	66	73	71	28	26	36	35
	45	46	55	53	64	65	76	72	29	27	37	38
270	90	19	120	18	150	17	0	22	30	21	60	20
	54	52	63	66	73	71	28	26	36	35	44	47
	55	53	64	65	74	72	29	27	37	38	45	46
300	120	19	150	18	0	23	30	22	60	21	90	20
	63	66	73	71	28	26	36	35	44	47	54	52
	64	65	74	72	29	27	37	38	45	46	55	53
330	150	19	0	24	30	23	60	22	90	21	120	20
	73	71	28	26	36	35	44	47	54	52	63	66
	74	72	29	27	37	38	45	46	55	53	64	65

(Left axis label: Ø_XY OF FIXED NOZZLE ~ DEGREES)
(Top label: DISTANCE FORWARD OF NOZZLE EXIT)

MPSRA	Tap No.
Run No. for RUF B03	Run No. for RUF B01
Run No. for RUF B04	Run No. for RUF B02

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TABLE II (Continued)

BOTTOM RIGHT NOZZLE   M = 0.7

φ DELAY ~ DEGREES	X/D=.058		X/D=.232		X/D=.406		X/D=.580		X/D=.753		X/D=.928	
	DISTANCE FORWARD OF NOZZLE EXIT											
0	0 / 28 / 29	25 / 26 / 27	30 / 36 / 37	36 / 35 / 38	60 / 44 / 45	35 / 47 / 46	90 / 54 / 55	34 / 52 / 53	120 / 63 / 64	33 / 66 / 65	150 / 73 / 74	32 / 71 / 72
30	30 / 36 / 37	25 / 35 / 38	60 / 44 / 45	36 / 47 / 46	90 / 54 / 55	35 / 52 / 53	120 / 63 / 64	34 / 66 / 65	150 / 73 / 74	33 / 71 / 72	0 / 28 / 29	26 / 26 / 27
60	60 / 44 / 45	25 / 47 / 46	90 / 54 / 55	36 / 52 / 53	120 / 63 / 64	35 / 66 / 65	150 / 73 / 74	34 / 71 / 72	0 / 28 / 29	27 / 26 / 27	30 / 36 / 37	26 / 35 / 38
90	90 / 54 / 55	25 / 52 / 53	120 / 63 / 64	36 / 66 / 65	150 / 73 / 74	35 / 71 / 72	0 / 28 / 29	28 / 26 / 27	30 / 36 / 37	27 / 35 / 38	60 / 44 / 45	26 / 47 / 46
120	120 / 63 / 64	25 / 66 / 65	150 / 73 / 74	36 / 71 / 72	0 / 28 / 29	29 / 26 / 27	30 / 36 / 37	28 / 35 / 38	60 / 44 / 45	27 / 46 / 47	90 / 54 / 55	26 / 52 / 53
150	150 / 73 / 74	25 / 71 / 72	0 / 28 / 29	30 / 26 / 27	30 / 36 / 37	29 / 35 / 38	60 / 44 / 45	28 / 47 / 46	90 / 54 / 55	27 / 52 / 53	120 / 63 / 64	26 / 66 / 65
180	0 / 28 / 29	31 / 26 / 27	30 / 36 / 37	30 / 35 / 38	60 / 44 / 45	29 / 47 / 46	90 / 54 / 55	28 / 52 / 53	120 / 63 / 64	27 / 66 / 65	150 / 73 / 74	26 / 71 / 72
210	30 / 36 / 37	31 / 35 / 38	60 / 44 / 45	30 / 47 / 46	90 / 54 / 55	29 / 52 / 53	120 / 63 / 64	28 / 66 / 65	150 / 73 / 74	27 / 71 / 72	0 / 28 / 29	32 / 26 / 27
240	60 / 44 / 45	31 / 47 / 46	90 / 54 / 55	30 / 52 / 53	120 / 63 / 64	29 / 66 / 65	150 / 73 / 76	28 / 71 / 72	0 / 28 / 29	33 / 26 / 27	30 / 36 / 37	32 / 35 / 38
270	90 / 54 / 55	31 / 52 / 53	120 / 63 / 64	30 / 66 / 65	150 / 73 / 74	29 / 71 / 72	0 / 28 / 29	34 / 26 / 27	30 / 36 / 37	33 / 35 / 38	60 / 44 / 45	32 / 47 / 46
300	120 / 63 / 64	31 / 66 / 65	150 / 73 / 74	30 / 71 / 72	0 / 28 / 29	35 / 26 / 27	30 / 36 / 37	34 / 35 / 38	60 / 44 / 45	33 / 47 / 46	90 / 54 / 55	32 / 52 / 53
330	150 / 73 / 74	31 / 71 / 72	0 / 28 / 29	36 / 26 / 27	30 / 36 / 37	35 / 35 / 38	60 / 44 / 45	34 / 47 / 46	90 / 54 / 55	33 / 52 / 53	120 / 63 / 64	32 / 66 / 65

φ DELAY OF FIXED NOZZLE ~ DEGREES

MPSRA	Tap No.
Run No. for RUFC03	Run No. for RUFC01
Run No. for RUFC04	Run No. for RUFC02

TABLE II (Continued)

TOP NOZZLE   M = 1.2

RAY OF FIXED NOZZLE ~ DEGREES	DISTANCE FORWARD OF NOZZLE EXIT											
	X/D=.058		X/D=.232		X/D=.406		X/D=.580		X/D=.753		X/D=.925	
0	0 / 24 / 25	1 / 22 / 23	30 / 34 / 33	12 / 30 / 31	60 / 4? / 43	11 / 40 / 41	90 / 50 / 51	10 / 48 / 49	120 / 59 / 60	9 / 62 / 61	150 / 77 / 78	8 / 75 / 76
30	30 / 34 / 33	1 / 30 / 31	60 / 42 / 43	12 / 40 / 41	90 / 50 / 51	11 / 48 / 49	120 / 59 / 60	10 / 62 / 61	150 / 77 / 78	9 / 75 / 76	0 / 24 / 25	2 / 22 / 23
60	60 / 42 / 43	1 / 40 / 41	90 / 50 / 51	12 / 48 / 49	120 / 59 / 60	11 / 62 / 61	150 / 77 / 78	10 / 75 / 76	0 / 24 / 25	3 / 22 / 23	30 / 34 / 33	2 / 30 / 31
90	90 / 50 / 51	1 / 48 / 49	120 / 59 / 60	12 / 62 / 61	150 / 77 / 78	11 / 75 / 76	0 / ?4 / 25	4 / 22 / 23	30 / 34 / 33	3 / 30 / 31	60 / 42 / 43	2 / 40 / 41
120	120 / 59 / 60	1 / 62 / 61	150 / 77 / 78	12 / 75 / 76	0 / 24 / 25	5 / 22 / 23	30 / 34 / 33	4 / 30 / 31	60 / 42 / 43	3 / 40 / 41	90 / 50 / 51	2 / 48 / 49
150	150 / 77 / 78	1 / 75 / 76	0 / 24 / 25	6 / 22 / 23	30 / 34 / 33	5 / 30 / 31	60 / 42 / 43	4 / 40 / 41	90 / 50 / 51	3 / 48 / 49	120 / 59 / 60	2 / 62 / 61
180	0 / 24 / 25	7 / 22 / 23	30 / 34 / 33	6 / 30 / 31	60 / 42 / 43	5 / 40 / 41	90 / 50 / 51	4 / 48 / 49	120 / 59 / 60	3 / 62 / 61	150 / 77 / 78	2 / 75 / 76
210	30 / 34 / 33	7 / 30 / 31	60 / 42 / 43	6 / 40 / 41	90 / 50 / 51	5 / 48 / 49	120 / 59 / 60	4 / 62 / 61	150 / 77 / 78	3 / 75 / 76	0 / 24 / 25	8 / 22 / 23
240	60 / 42 / 43	7 / 40 / 41	90 / 50 / 51	6 / 48 / 49	120 / 59 / 60	5 / 62 / 61	150 / 77 / 78	4 / 75 / 76	0 / 24 / 25	9 / 22 / 23	30 / 34 / 33	8 / 30 / 31
270	90 / 50 / 51	7 / 48 / 49	120 / 59 / 60	6 / 62 / 61	150 / 77 / 75	5 / 75 / 76	0 / 24 / 25	10 / 22 / 23	30 / 34 / 33	9 / 30 / 31	60 / 42 / 43	8 / 40 / 41
300	120 / 59 / 60	7 / 62 / 61	150 / 77 / 78	6 / 75 / 76	0 / 24 / 25	11 / 22 / 23	30 / 34 / 33	10 / 30 / 31	60 / 42 / 43	9 / 40 / 41	90 / 50 / 51	8 / 48 / 49
330	150 / 77 / 78	7 / 75 / 76	0 / 24 / 25	12 / 22 / 23	30 / 34 / 33	11 / 30 / 31	60 / 42 / 43	10 / 40 / 41	90 / 50 / 51	9 / 48 / 46	120 / 59 / 60	8 / 62 / 61

MPSKA	Tap No.
Run No. for RUFA07	Run No. for RUFA05
Run No. for RUFA06	Run No. for RUFA06

TABLE II (Continued)

BOTTOM LEFT NOZZLE   M = 1.2

RAY OF FIXED NOZZLE ~ DEGREES	DISTANCE FORWARD OF NOZZLE EXIT											
	X/D=.058		X/D=.232		X/D=.406		X/D=.580		X/D=.753		X/D=.929	
0	0/24/25	13/22/23	30/34/33	24/30/31	60/42/43	23/40/41	90/50/51	22/48/49	120/59/60	21/62/61	150/77/78	20/75/76
30	30/34/33	13/30/31	60/42/43	24/40/41	90/50/51	23/48/49	120/59/60	22/62/61	150/77/78	21/75/76	0/24/25	14/22/23
60	60/42/43	13/40/41	90/50/51	24/48/49	120/59/60	23/62/61	150/77/78	22/75/76	0/24/25	15/22/23	30/34/33	14/30/31
90	90/50/51	13/48/49	120/59/60	24/62/61	150/77/78	23/75/76	0/24/25	16/22/23	30/34/33	15/30/31	60/42/43	14/40/41
120	120/59/60	13/62/61	150/77/78	24/75/76	0/24/25	17/22/23	30/34/33	16/30/31	60/42/43	15/40/41	90/50/51	14/48/49
150	150/77/78	13/75/76	0/24/25	18/22/23	30/34/33	17/30/31	60/42/43	16/40/41	90/50/51	15/48/49	120/59/60	14/62/61
180	0/24/25	19/22/23	30/34/33	18/30/31	60/42/43	17/40/41	70/50/51	16/48/49	120/59/60	15/62/61	150/77/78	14/75/76
210	30/34/33	19/30/31	60/42/43	18/40/41	90/50/51	17/48/49	120/59/60	16/62/61	150/77/78	15/75/76	0/24/25	20/22/23
240	60/42/43	19/40/41	90/50/51	18/48/49	120/59/60	17/62/61	150/77/78	16/75/76	0/24/25	21/22/23	30/34/33	20/30/31
270	90/50/51	19/48/49	120/59/60	18/62/61	150/77/78	17/75/76	0/24/25	22/22/23	30/34/33	21/30/31	60/42/43	20/40/41
300	120/59/60	19/62/61	150/77/78	18/75/76	0/24/25	23/22/23	30/34/33	22/30/31	60/42/43	21/40/41	90/50/51	20/48/49
330	150/77/78	19/75/76	0/24/25	24/22/23	30/34/33	23/30/31	60/42/43	22/40/41	90/50/51	21/48/46	120/59/60	20/62/61

MPSRA	Tap No.
Run No. for RUFBC7	Run No. for RUFB05
Run No. for RUFB08	Run No. for RUFB06

TABLE II (Continued)

BOTTOM RIGHT NOZZLE   M=1.2

DISTANCE FORWARD OF NOZZLE EXIT

RAY OF FIXED NOZZLE ~ DEGREES	X/D=.055	X/D=.232	X/D=.406	X/D=.580	X/D=.753	X/D=.928
0	0 / 25 24 / 22 25 / 23	30 / 36 34 / 30 33 / 31	60 / 35 42 / 40 43 / 41	90 / 34 50 / 48 51 / 49	120 / 33 59 / 62 60 / 61	150 / 32 77 / 75 78 / 76
30	30 / 25 34 / 30 33 / 31	60 / 36 42 / 40 43 / 41	90 / 35 50 / 48 51 / 49	120 / 34 59 / 62 60 / 61	150 / 33 77 / 75 78 / 76	0 / 26 24 / 22 25 / 23
60	60 / 15 42 / 40 43 / 41	90 / 36 50 / 48 51 / 49	120 / 35 59 / 6? 60 / 61	150 / 34 77 / 75 78 / 76	0 / 27 24 / 22 25 / 23	30 / 26 34 / 30 33 / 31
90	90 / 25 50 / 48 51 / 49	120 / 36 59 / 62 60 / 61	150 / 35 77 / 75 78 / 76	0 / 28 24 / 22 25 / 23	30 / 27 34 / 30 33 / 31	60 / 26 42 / 40 43 / 41
120	120 / 25 57 / 62 60 / 61	150 / 36 77 / 75 78 / 76	0 / 29 24 / 22 25 / 23	30 / 28 34 / 30 32 / 31	60 / 27 42 / 40 43 / 41	90 / 26 50 / 48 51 / 49
150	150 / 25 77 / 75 78 / 76	0 / 30 24 / 22 25 / 23	30 / 29 34 / 30 33 / 31	60 / 28 42 / 40 43 / 41	90 / 27 50 / 48 51 / 49	120 / 26 59 / 62 60 / 61
180	0 / 31 24 / 22 25 / 23	30 / 30 34 / 30 33 / 31	60 / 29 42 / 40 43 / 41	90 / 28 50 / 48 51 / 49	120 / 27 59 / 62 60 / 61	150 / 26 77 / 75 78 / 76
210	30 / 31 34 / 30 33 / 31	60 / 30 42 / 40 43 / 41	90 / 27 50 / 48 51 / 49	120 / 28 59 / 62 60 / 61	150 / 27 77 / 75 78 / 76	0 / 32 24 / 22 25 / 23
240	60 / 31 42 / 40 43 / 41	90 / 30 50 / 48 51 / 49	120 / 29 59 / 62 60 / 61	150 / 28 77 / 75 78 / 76	0 / 33 24 / 22 25 / 23	30 / 32 34 / 30 33 / 31
270	90 / 31 50 / 48 51 / 49	120 / 30 59 / 62 60 / 61	150 / 29 77 / 75 75 / 76	0 / 34 24 / 22 25 / 23	30 / 33 34 / 30 33 / 31	60 / 32 42 / 40 43 / 41
300	120 / 31 59 / 62 60 / 61	150 / 30 77 / 75 75 / 76	0 / 35 24 / 22 25 / 23	30 / 34 34 / 30 33 / 31	60 / 33 42 / 40 43 / 41	90 / 32 50 / 48 51 / 49
330	150 / 31 77 / 75 78 / 76	0 / 36 24 / 22 25 / 23	30 / 35 34 / 30 33 / 31	60 / 34 42 / 40 43 / 41	70 / 33 50 / 48 51 / 46	120 / 32 59 / 62 60 / 61

MPSRA	Tap No.
Run No. for RUFC07	Run No. for RUFC05
Run No. for RUFC08	Run No. for RUFC06

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TABLE II (Continued)

TEST: Calspan TIA-053   **DATA SET/RUN NUMBER COLLATION SUMMARY**   **DATE:** 22 June, 1973

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	MPSQ 0°	POWER	ØPR	SEMR	GP1 +11°	GY1 -9°	GY2 -9°	GY3 -9°	ζ 0°	NO. OF RUNS	MACH 0.9	MACH 1.2
RUF015	Ø₂ T.S.	A	O	0°	OFF	-	-	+11°	-9°	-9°	-9°	0°		15	12
018		A	O		OFF	-	-								18
019		A	O		OFF	-	-							19	
020		O	D		OFF	-	-							20	
022		C	O		OFF	-	-								22
023		O	B		OFF	-	-								23
024		C	O		ON	36.20	2.33								24
025		O	D		ON	36.20	2.33								25
026		C	O		OFF	-	-							26	
027		O	D		OFF	-	-							27	
028		C	O		ON	28.31	2.02							28	
029		O	D		ON	28.31	2.02							29	
030		C	O	30°	OFF	-	-								30
031		O	D		OFF	-	-								31
033		O	D		ON	36.20	2.33								33
034		O	D		ON	36.20	2.33								34
035		C	O		OFF	-	-							35	
036		C	O		ON	28.31	2.02							36	

Coefficients

α A: -8-6-4-2,0,2,4,6,8   B B: -8-6-4-2,0,2,4,6,8
α C: -8-4,0,4,6   B D: -6-3,0,3,6

α OR β   IDVAR (1)   ILOAD (2)
SCHEDULES

*See Description at end of this table.

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TABLE II (Continued)

TEST: Calspan T14-053 DATA SET/RUN NUMBER COLLATION SUMMARY   DATE: 22 June, 1973

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	M PWR POWER	OPR	SRMPR	GP1	GY1	GY2	GY3	L	NO. OF RUNS	MACH 0.9	MACH 1.2
RUF037	φ₂ T S₁	O	D	30°	ØN 28.31	2.02	+11°	-9°	-9°	-9°	0°		37	
038		O	D	30° ØFF	–	–							38	
040		C	O	60° ØFF	–	–								40
041		O	D	ØFF	–	–								41
042		C	O	ØN 36.20	2.33									42
043		O	D	ØN 36.20	2.33									43
044		C	O	ØN 28.31	2.02								44	
045		C	D	ØN 28.31	2.02								45	
046		O	D	ØFF	–	–							46	
047		C	O	ØFF	–	–							47	
048		C	O	90° ØFF	–	–								48
049		O	D	ØFF	–	–								49
050		C	O	ØN 36.20	2.33									50
051		C	D	ØN 36.20	2.33									51
052		C	O	ØFF	–	–							52	
053		O	D	ØFF	–	–							53	
054		C	O	ØN 28.31	2.02								54	
055		O	D	ØN 28.31	2.02								55	

α or β SCHEDULES   Coefficients

αA: 8-6-4-2.0,2,4,6,8   βB: 8-6-4-2.0,2,4,6,8

αC: 8-4-0,4,6   βD: 6-3,0,3,6

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TABLE II (Continued)

TEST: Calspan T14-053 **DATE: 22 June, 1973**

DATA SET/RUN NUMBER COLLATION SUMMARY

DATA SET IDENTIFIER	CONFIGURATION	SCHD. a	SCHD. b	MPSR	POWER	ØPR	50MPR	GP1	GY1	GP2	GY2	GP3	GY3	NO. OF RUNS	MACH 0.9	MACH 1.2
RUF059	Ø₂T₁S₁	C	O	120°	ØN	36.20	2.33	+11°	-9°	0°	-9°	0°	-9°		59	
060		O	D		ØN	36.20	2.33									60
061		C	O		ØFF	—	—									61
062		O	D		ØFF	—	—									62
063		C	O		ØN	28.31	2.02								63	
064		O	D		ØN	28.31	2.02								64	
065		C	O		ØFF	—	—								65	
066		O	D		ØFF	—	—								66	
071		C	O	150°	ØFF	—	—								71	
072		O	D		ØFF	—	—								72	
073		C	O		ØN	28.31	2.02								73	
074		O	D		ØN	28.31	2.02								74	
075		C	O		ØFF	—	—								75	
076		O	D		ØFF	—	—								76	
077		C	O		ØN	36.20	2.33								77	
078		O	D		ØN	36.20	2.33								78	
081	Ø₁T₁S₁	C	O	0°	ØFF	—	—	0°	0°	0°	-3.5°	0°	+3.5°			81
082	Ø₁T₁S₁	O	D	0°	ØFF	—	—	0°	0°	0°	-3.5°	0°	+3.5°			82 *

Coefficients

αA: -8, -6, -4, -2, 0, 2, 4, 6, 8
αC: -8, -6, -4, 0, 4, 6
βB: -8, -6, -4, -2, 0, 2, 4, 6, 8
βD: -6, -3, 0, 3, 6

IDVAR (1)   IDVAR (2)

α OR β SCHEDULES

* Grounding from β=+3° to +6°
(See Repeat runs 105-108)

TABLE II (Continued)

TEST: Calspan T14-053 DATA SET/RUN NUMBER COLLATION SUMMARY **DATE: 22 June, 1973**

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	MPRA 0°	POWER	∅PDSRMR	RUDDER 0°	GP1 0°	GY1 0°	GY2 -3.5°	GP3 0°	GY3 +3.5°	NO. OF RUNS	MACH 0.9	MACH 1.2	MACH *
RUF 083	∅.T.S₁	C	0	0°	ON	31.20	2.33							0.9		
084		O	D	⊤	ON	36.20	2.33								83	84 *
085		C	0		ON	95.8	2.33								85	
086		C	0		ON	66.7	2.33								86	
087		C	0		ON	36.20	3.17								87	
088		C	0		OFF	—	—							88		
089		O	D		OFF	—	—							89		
090		C	O		ON	28.31	2.02							90		
091		O	D		ON	28.31	2.02							91		
092		C	O		ON	70.5	2.02							92		
093		C	0		ON	48.6	2.02							93		
094		C	0		ON	28.31	2.40	+10°						94		
095		C	0		OFF	—	—								95	
096		O	D		OFF	—	—								96	
097		C	0		ON	36.20	2.33								97	
098		O	D		ON	36.00	2.33								98	
099		O	D		ON	97.6	2.33								99	
100		C	0		OFF	—								100		

α OR β SCHEDULES

$\alpha A: -8-6-4-2-0, 2, 4, 6, 8$
$\alpha C: -8-4-0, 4, 6$

$\beta B: -8-6-4-2-0, 2, 4, 6, 8$
$\beta D: -6-3-0, 3, 6$

Coefficients

* Grounding from β=+3° to +6°
(See Repeat runs 105-108)

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TABLE II (Continued)

TEST: Colspan T14-053 | DATA SET/RUN NUMBER COLLATION SUMMARY | DATE: 22 June, 1973

DATA SET IDENTIFIER	CONFIGURATION	SCHD. α	SCHD. β	MPSRA	POWER	ØPR	SØMPR	RUDDER	GP1	GY1	GY2	GP3	GY3	NO. OF RUNS	MACH 0.9	MACH 1.2
				0^c				$+10^c$	0°	0^c	-3.5^o	0^c	$+3.5^c$			
RUE 101	Ø.T.S.	O	D		OFF	–	–								101	
102		C	O		ØN	28.31	2.02								102	
103		O	D		ØN	28.31	2.02								103	
104		O	D		ØN	69.3	2.02								104	
105		O	D		ØN	3.20	2.33	0°								105
106		O	D		OFF	–	–									106
107		O	D		OFF	–	–								107	
108		O	D		ØN	28.31	2.02								108	

Coefficients

αA: -8 -6 -4 -2 0 2 4 6 8
αC: -8 -6 -4 0 4 6
βB: -8 -6 -4 -2 0 2 4 6 8
βD: -6 -3 0 3 6

α OR β SCHEDULES

IDVAR(1) | IDVAR(2) | NCV

TABLE II   (Continued)

TEST: Calspan TIA-053   DATA SET/RUN NUMBER COLLATION SUMMARY   DATE: 22 June, 1973

DATA SET IDENTIFIER	CONFIGURATION	I.D. α	I.D. β	NOSE	PWR	SPKR	GP1	GP2	GY2	GP3	GY3	GP4	GP5	MACH 0.9	MACH 1.2
RuE 109	Φ.T.S.	C	O	ON	36.20	2.33	+11°	+11°	3.5°	+11°	+3.5°	+7°	+7°		109
110		O	D	ON	36.20	2.33									110
111		C	O	ON	28.31	2.02								111	
112		O	D	ON	28.31	2.02								112	
113		C	O	ON	36.20	2.33	-11°	-8°		-8°		-7°	-7°		113
114		O	D	ON	36.20	2.33									114
115		C	O	ON	28.31	2.02								115	
116		O	D	ON	2F.31	2.02								116	
117	Noses Off	A	O	OFF	—	—	O°	O°		O°		O°	O°		117
118		O	B	OFF	—	—									118
119		A	O	OFF	—	—								119	
120		C	B	OFF	—	—								120	

α OR β SCHEDULES

αA: E-6-4-2 C, 2, 4, 6, 8
αC: E-4 C, 4, 6

Coefficients

6B: E-6-4-2 C, 2, 4, 6, 8
BD: 6-3 C, 3, 6

IDVAR(1)   IC AR(2)   NOV

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TABLE II (Continued)

DATASET COEFFICIENTS

TYPE OF DATA	DATASETS	COEFFICIENTS
LAUNCH VEHICLE FORCE DATA		
Source data	RUF015-120	CN, CLMF, CLM, CAF, CA, CYN, CBL
Power-off longitudinal coefficients and increments due to power	SUF073-115* (pitch runs)	DCAF, DCAB, DCN, DCLMF, CAF, CAB, CN, CLMF
Power-off rudder effectiveness derivatives and increments due to power	PUF097, 102 PUF098, 103	DDCAFR, DDCNDR, DDCMFR, DCAFDR, DCN/DR, DCMFDR DDCYDR, DDCBLR, DDCYNR, DCY/DR, DCBLDR, DCYNDR
Power-off alpha derivatives, a.c. position in pitch, and increments due to power	QUF073-115* (pitch runs)	DCN/A, DCMF/A, DXAC/L, CN/A, CLMF/A, XAC/L
Power-off beta derivatives, a.c. position in yaw, and increments due to power	QUF074-116* (yaw runs)	DCY/B, DCBL/B DCYN/B, DYAC/L, CY/B, CBL/B, CYN/B, XYAC/L
HINGE MOMENT DATA		
Wing root loads and rudder and elevon hinge moments	AUF015-120	CNW, CHW, CBW, CHR, CHEI, CHEO

*NOTE: Power effect dataset numbers are the same as the power-on
        run numbers of the source data.

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TABLE II (Concluded)

DATASET COEFFICIENTS

TYPE OF DATA	DATASETS	COEFFICIENTS
MPS NOZZLE DATA		
Source pressure data	RUFA01-08	CP (upper nozzle)
	RUFB01-08	CP (lower left hand nozzle)
	RUFC01-08	CP (lower right hand nozzle)
Normal net pressure coefficient, upper surface-lower surface	NUFA01-08	DELCP
	NUFB01-08	DELCP
	NURC01-08	DELCP
Side net pressure coefficient, right side-left side	SUFA01-08	DELCP
	SUFB01-08	DELCP
	SUFC01- 08	DELCP
Integrated local loads coefficients (axial distributions)	AUFA01-08	DCN/DX, DCNMDX, DCY/DX, DCYNDX
	AUFB01-03	DCN/DX, DCNMDX, DCY/DX, DCYNDX
	AUFC01-08	DCN/DX, DCNMDX, DCY/DX, DCYNDX
Integrated total loads coefficients	DUFA01-08	CN, CY, CFR, THETAF, CLM, CYN, CMR,THETAM
	DUFB01-08	CN, CY, CFR, THETAF, CLM, CYN, CMR,THETAM
	DUFC01-08	CN, CY, CFR, THETAF, CLM, CYN, CMR,THETAM
WING PRESSURE DATA		
Lower surface	LUF015, 18-20, 73, 77, 81-120	CP
Upper surface	UUF015, 18-20, 73, 77, 81-120	CP

TABLE III.
MODEL COMPONENT DESCRIPTIONS

MODEL COMPONENT: B10 - Body

GENERAL DESCRIPTION: Fuselage, 2A Configuration, Lightweight Orbiter per

Rockwell Lines VL70-000089 "B".

Scale Model = 0.019

DRAWING NUMBER:
VL70-000089 "B"
VL70-000092, 93, 94 "A"
SS-A-00092

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length $\sim$ in.	1328.3	25.238
Max. Width $\sim$ in. ($@X_o = 1528.3$)	265.0	5.035
Max. Depth $\sim$ in. ($@X_o = 1480.52$)	248.0	4.712
Fineness Ratio	5.012	5.012
Area $\sim$ Ft.^{2}		
Max. Cross-Sectional	456.4	0.1648
Planform	-	-
Wetted	-	-
Base	-	-

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TABLE III. (Continued)

MODEL COMPONENT: C5 Orbiter Canopy

GENERAL DESCRIPTION: Orbiter Canopy for Light Weight Orbiter Configuration

Model Scale = 0.019

DRAWING NUMBER: VL-70-000092

DIMENSIONS:

	FULL-SCALE	MODEL SCALE
STA. FWD. Bulkhead, in	391.0	7.429
STA. T.E., in	560.0	10.640
Canopy/Body Intersection, IN	391.0	7.429

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TABLE III. (Continued)

MODEL COMPONENT: <u>D7 - Manipulator Housing</u>

GENERAL DESCRIPTION: <u>2A Configuration Per Rockwell Lines VL70-000093</u>

Scale Model = 0.019

DRAWING NUMBER: VL70-000093; SS-A-00092

DIMENSIONS:

	FULL-SCALE	MODEL SCALE
Length ~ in.	881.0	16.739
Max. Width ~ in.	51.0	0.969
Max. Depth ~ in.	23.0	0.437
Fineness Ratio	-	-
Area		
Max. Cross-Sectional	-	-
Planform	-	-
Wetted	-	-
Base	-	-

Location at:

¢ Fuselage BP = 0.0
WP = 500.0 INFS
$X_o426.0$ to $X_o1307.0$ INFS

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TABLE III. (Continued)

MODEL COMPONENT: WING-W 87 Lightweight Orbiter

GENERAL DESCRIPTION: Orbiter Configuration per Rockwell Lines VL70-000093

NOTE: (Dihedral angle is defined at the lower surface of the wing at the 75.33% element line projected into a plane perpendicular to the FRL.

Scale Model = 0.019

TEST NO.	DWG. NO. VL70-000093 SSA-A00091, 92	
DIMENSIONS:	FULL-SCALE	MODEL SCALE

TOTAL DATA

	FULL-SCALE	MODEL SCALE
Area (Theo.) Ft^2		
Planform	2690.0	0.971
Span (Theo In.	936.682	17.797
Aspect Ratio	2.265	2.265
Rate of Taper	1.177	1.177
Taper Ratio	0.200	0.200
Dihedral Angle, degrees	3.500	3.500
Incidence Angle, degrees	3.000	3.000
Aerodynamic Twist, degrees	+3.000	+3.000
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	-10.24	-10.24
0.25 Element Line	35.209	35.209
Chords: ~ IN		
Root (Theo) B.P.O.0.	689.24	13.096
Tip, (Theo) B.P.	137.85	2.619
MAC	474.81	9.021
Fus. Sta. of .25 MAC	1136.39	21.601
W.P. of .25 MAC	299.20	5.685
B.L. of .25 MAC	182.13	3.460

EXPOSED DATA

	FULL-SCALE	MODEL SCALE
Area (Theo) Ft^2	1752.29	0.633
Span, (Theo) In. BP108	720.68	13.693
Aspect Ratio	2.058	2.058
Taper Ratio	0.2451	0.2451
Chords		
Root BP108	562.40	10.686
Tip 1.00 $\frac{b}{2}$	137.85	2.619
MAC	393.03	7.468
Fus. Sta. of .25 MAC	1185.31	22.521
W.P. of .25 MAC	300.20	5.704
B.L. of .25 MAC	251.76	4.783
Airfoil Section (Rockwell Mod NASA) XXXX-64		
t/c @Root $\frac{b}{2}$ = 0.425	0.10	0.10
τ/c @Tip $\frac{t}{2}$ = 1.00	0.12	0.12

Data for (1) of (2) Sides

	FULL-SCALE	MODEL SCALE
Leading Edge Cuff Planform Area Ft^2	120.33	0.034
Leading Edge Intersects Fus M. L. @ Sta	560.0	10.640
Leading Edge Intersects Wing @ Sta	1035.0	19.665

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TABLE III. (Continued)

MODEL COMPONENT: E18 - Elevon

GENERAL DESCRIPTION: 2A Configuration Per W-87 Rockwell Lines VL70-000093

Data for (1) of (2) Sides

Scale Model = 0.019

DRAWING NUMBER: VL70-000093; SS-A-00092

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area $\sim Ft^2$	205.52	0.0742
Span (equivalent) $\sim$ in.	353.34	6.713
Inb'd equivalent chord (B.P.115.0in),in	114.78	2.181
Outb'd equivalent chord (B.P./.68.3in),in	55.00	1.045
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.208	0.208
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	0.00	0.00
Tailing Edge	-10.24	-10.24
Hingeline (X_o = 1387" F. S.)	0.00	0.00
Area Moment (Normal to hinge line) Ft^3 Product of Area Moment	1,548.07	0.01062

NOTE: The elevon panel consists of an InBD and OutBD segment. The split line dividing the segments is at B.P. 281 inches full scale (B.P. 5.339 inches Model Scale)

TABLE III. (Continued)

MODEL COMPONENT: VERTICAL - V5 (Light Wt. Orbiter Configuration)

GENERAL DESCRIPTION: Centerline Vertical Tail, Double Wedge Airfoil with

Rounded Leading Edge

Model Scale = 0.019

DRAWING NUMBER: VL-70-000095; SS-A-00092

DIMENSIONS: FULL-SCALE   MODEL SCALE

TOTAL DATA

	FULL-SCALE	MODEL SCALE
Area (Theo) Ft^2	413.25	0 1492
Planform	-	-
Span (Theo) In	315.72	5.999
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	0.404	0.404
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.249	26.249
0.25 Element Line	41.130	41.130
Chords: Inches		
Root (Theo) WP	268.50	5.102
Tip (Theo) WP	108.47	2.061
MAC	199.81	3.796
Fus. Sta. of .25 MAC	1453.50	27.307
W. P. of .25 MAC	635.52	12.075
B. L. of .25 MAC	0.0	0.0
Airfoil Section		
Leading Wedge Angle ~ Deg	10.00	10.00
Trailing Wedge Angle ~ Deg	14.92	14.92
Leading Edge Radius, IN	2.00	0.038
Void Area ~Ft.	13.17	0.00475
Blanketed Area ~Ft²	12.67	0.00457

TABLE III. (Continued)

MODEL COMPONENT: R5 - Rudder

GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL 70-000095.

Scale Model = 0.019

DRAWING NUMBER: VL70-000095 SS-A00091, 92

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Area $\sim Ft^2$	106.38	0.0384
Span (equivalent) $\sim$ IN	201.0	3.819
Inb'd equivalent chord, IN	91.585	1.740
Outb'd equivalent chord, IN	50.833	0.966
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	0.400	0.400
At Outb'd equiv. chord	0.400	0.400
Sweep Back Angles, degrees		
Leading Edge	34.83	34.83
Tailing Edge	26.25	26.25
Hingeline	34.83	34.83
Area Moment (Normal to hinge line) $\sim Ft^3$	526.13	0.00361

(Product of Area and Mean Chord)

TABLE III. (Continued)

MODEL COMPONENT: M_3 - OMS POD

GENERAL DESCRIPTION: 2A Lightweight Orbiter Configuration per Rockwell Lines VL70-000094 "A"

Scale Model = 0.019

DRAWING NUMBER: VL70-000094 "A"; SS-A-00092

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length $\sim$ in.	346.0	6.574
Max. Width $\sim$ in. $\sim X_0$ 1450.0	108.0	2.052
Max. Depth $\sim$ in. $@ X_0$ 1500.0	113.8	2.162
Fineness Ratio	-	-
Area		
Max. Cross-Sectional	-	-
Planform	-	-
Wetted	-	-
Base	-	-

$\mathcal{L}$ of OMS POD
Z_0 = 463.9 INFS: WP400 + 63.9 = 463.9 INFS
Y_0 = 80.0 INFS
Length: X_0 1214.0 to X_0 1560.0 = 346.0 INFS

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TABLE III. (Continued)

MODEL COMPONENT: N2 – OMS Nozzle

GENERAL DESCRIPTION: Basic OMS Nozzle of the 2A Configuration per Rockwell

Lines VL70-008306 and VL70-000089 "B"

Scale Model = 0.019

DRAWING NO. VL70-008306, VL70-000089"B", SS-A00092

DIMENSIONS		FULL-SCALE	MODEL SCALE
MACH NO. __			
DIAMETER DEX ~ IN		50.00	0.950
DIAMETER DT ~ IN		N/A	N/A
DIAMETER DIN ~ IN		28.00	0.532
θN ~ DEGREES		N/A	N/A

AREA ~ FT.^{2}

	FULL-SCALE	MODEL SCALE
MAX CROSS-SECTIONAL	13.635	0.0049

GIMBAL ORIGIN

	X_0	Y_0	Z_0
Left NOZZLE ~ IN	1518	-88.0	492
Right NOZZLE ~ IN	1518	+88.0	492

NULL POSITION

	PITCH	YAW
Left NOZZLE ~ Deg.	15°49'	-12°07'
Right NOZZLE ~ Deg.	15°49'	+12°17'

Intersection of Nozzle
Exit Plane and Nozzle
Centerline ~ IN

$X_0 = 1576.7$

$Y_0 = \pm 90.5$

$Z_0 = 507.15$

REPRODUCIBILITY OF THE
ORIGINAL PAGE IS POOR

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TABLE III. (Continued)

MODEL COMPONENT: N9 Orbiter Nozzles

GENERAL DESCRIPTION: Orbiter Nozzles used for Cold Jet Plume Simulation at

M = .9,1.25, 1.55,2.0,3.0 and 3.5. All Three Model Nozzles are Mounted to

Ball Sockets which allow Gimbal Angles of ±11° Pitch and ±9° Yaw

from NULL. Model Scale = 0.019

DRAWING NO. SS-A-00092; SS-A-00095

DIMENSIONS		FULL-SCALE	MODEL SCALE
MACH NO. .9 thru 3.5			
DIAMETER DEX ~ IN		90.73	1.7238
DIAMETER DT ~ IN		29.126	0.5534
DIAMETER DIN ~ IN		37.336	0.7094
ΘN ~ DEGREES		-	-
AREA ~ Ft²			
MAX CROSS-SECTIONAL (Exit)		44.896	0.0162

GIMBAL ORIGIN	X_0	Y_0	Z_0
UPPER NOZZLE ~ IN (F.S., M.S.)	1445.0, 27.455	0.0, 0.0	443.0, 8.7
BOTTOM NOZZLE ~ IN (F.S., M.S.)	1467.9, 28.890	53.0, 1.007	342.6, 6.5

NULL POSITION	PITCH	YAW
UPPER NOZZLE	16°	0°
BOTTOM NOZZLE	10°	3.5° (outb'd)

TABLE III. (Continued)

MODEL COMPONENT: N10 Orbiter Nozzles

GENERAL DESCRIPTION: Orbiter Nozzles used for Cold Jet Plume Simulation at

M = .9 1.25, 1.55, 2.0, 3.0, and 3.5.

The bottom nozzles gimbal ± 11° pitch ± 9° Yaw in Ball Sockets. The upper nozzle

is fixed at + 11° Pitch, -9° Yaw and has twelve (12) external static taps on

nozzle surface. Model Scale = 0.019

DRAWING NO.   SS-A-00092; SS-A-00095

DIMENSIONS	FULL-SCALE	MODEL SCALE
MACH NO. .9 thru 3.5		
DIAMETER DEX ~ IN	90.73	1.7238
DIAMETER DT ~ IN	28.126	0.5344
DIAMETER DIN ~ IN	37.336	0.7094
θ_N ~ DEGREES	-	-

AREA ~ FT

	FULL-SCALE	MODEL SCALE
MAX CROSS-SECTIONAL (Exit per Nozzle)	44.896	0.0162

GIMBAL ORIGIN	X_0	Y_0	Z_0
UPPER NOZZLE ~ IN (F.S., M.S.)	1445.0, 27.455	0.0, 0.0	443.0, 8.417
BOTTOM NOZZLE ~ IN (F.S., M.S.)	1467.9, 27.890	53.0, 1.0007	342.6, 6.510

NULL POSITION	PITCH	YAW
UPPER NOZZLE	16°	0°
BOTTOM NOZZLE	10°	3.5° (Out.BD)

TABLE III. (Continued)

MODEL COMPONENT: F4 Body Flap

GENERAL DESCRIPTION: Aft Body Flap Used on Light Weight Orbiter Configuration

Model Scale = 0.019

DRAWING NUMBER: VL-70-000094 "A", SS-A-00092

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length , in	84.70	1.609
Max. Width , in	265.00	5.035
Max. Depth	-	-
Fineness Ratio	-	-
Area, Ft^2		
Max. Cross-Sectional	-	-
Planform	142.64	0.05149
Wetted	-	-
Base	38.65	0.01395

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TABLE III.   (Continued)

COMPONENT: X_8 Transition Strips

DESCRIPTION: Transition grit strips used in AMES 9x7 wind tunnel.
Microbeads were used to make grit strip. Microbead
diameter equals 0.0065 inches.

Model Scale = 0.019

LOCATIONS: (Dimensions Model Scale)

SRM: 2 inches aft of nose (0.125" wide strip)

EOHT: 6 inches aft of nose (0.125" wide strip)

WING: 0.5 inches perpendicular to wing leading edge
(0.125" wide strip)

VERTICAL TAIL: 0.25 inches perpendicular to tail leading
edge (0.125" wide strip)

ORBITER BODY: 0.75 inches aft of nose (0.125" wide strip)

TABLE III. (Continued)

Model Component: Solid Rocket Motor (S_{10})

General Description: Booster solid rocket motor, body of revolution
Data for 1 of 2 sides

Model Scale = 0.019

Drawing Number: VL77-000039

Dimensions:	Full-Scale	Model Scale
Length (includes nozzle), in.	1741.0	33.080
Max width (diameter), in.	142.0	2.698
Max depth (aft shroud diameter), in.	192.0	3.648
Fineness ratio	9.0677	9.0677
Area ~ ft^2		
Max cross-sectional	201.062	0.0726
Planform		
Wetted		
Base		
WP of BSRM centerline, (X_T), in.	400.0	7.600
FS of BSRM nose, (X_T), in.	743.0	14.117

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TABLE III. (Concluded)

MODEL COMPONENT: T10 External Tank

GENERAL DESCRIPTION: External Oxygen Hydrogen Tank

Configuration to which the Orbiter and the Two Solid Rocket Motors attach

Body of revolution

Model Scale = 0.019

DRAWING NUMBER: VL-70-000088   VL-78-000041

DIMENSIONS:	FULL-SCALE	MODEL SCALE
Length, IN (Nose @ X_t = 309.0)	1865.0	35.435
Max. Width (Dia.), IN	324.0	.6.156
Max. Depth	-	-
Fineness Ratio	5.75617	5.75617
Area Ft^2		
Max. Cross-Sectional	572.56	0.2067
Planform	-	-
Wetted	-	-
Base	-	-
W.P. of Tank Centerline, (X_t) IN	400.0	7.600

TABLE IV.

$D_E = 40.7$ IN
$I_{AVG} = 11.41$???
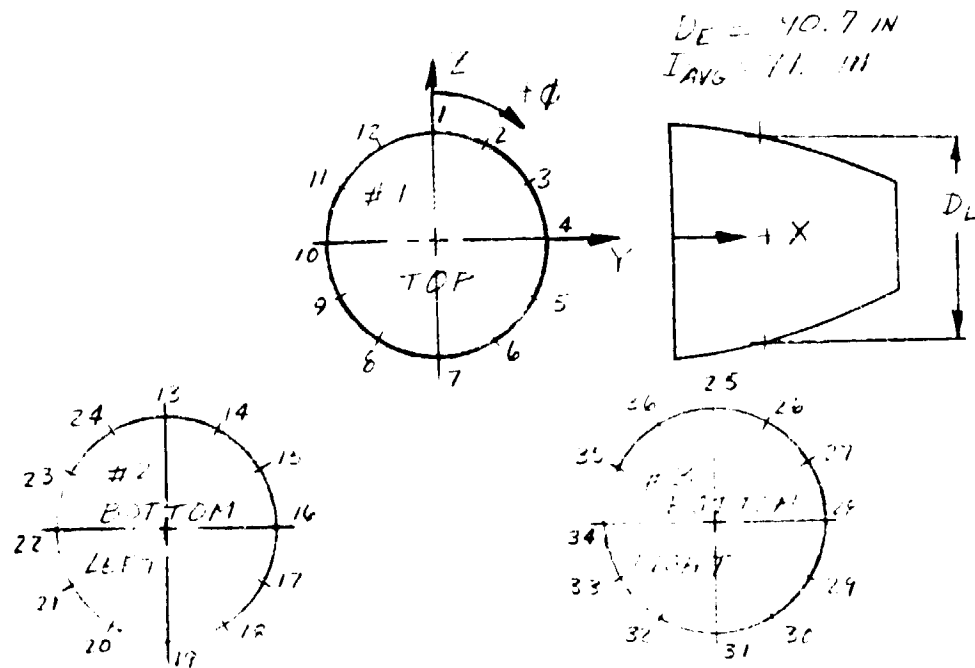
ϕ	X/D_E	TAP NOS	D_L/D_{AVG}
0	.058	1, 13, 25	1.2817
30	.128	2, 14, 26	0.6797
60	.753	3, 15, 27	0.8892
90	.580	4, 16, 28	1.0141
120	.406	5, 17, 29	1.4179
150	.232	6, 18, 30	1.2814
180	.058	7, 19, 31	1.2817
210	.128	8, 20, 32	0.6797
240	.753	9, 21, 33	0.8892
270	.580	10, 22, 34	1.0141
300	.406	11, 23, 35	1.4179
330	.232	12, 24, 36	1.2814

TAP LOCATIONS - ORBITER NOZZLES

TABLE V.
DIMENSIONAL DESCRIPTION
ORBITER NOZZLES

x/r*	r/r*
	EXIT PLANE
0	3.2257
.1097	3.2107
.3365	3.1793
.5879	3.1430
.8660	3.1010
1.0101	3.0786
1.3342	3.0258
1.6437	2.9727
1.8428	2.9368
2.0992	2.8892
2.2421	2.8615
2.4012	2.8301
2.578ᴢ	2.7942
2.7743	2.7530
2.9918	2.7058
3.1995	2.6591
3.4008	2.6123
3.5307	2.5808
3.6999	2.5393
3.9169	2.4828
4.0378	2.4525
4.1718	2.4165
4.3215	2.3754
4.4862	2.3286
4.6980	2.2665
4.8990	2.2055
5.0303	2.1639
5.1969	2.1104
5.3945	2.0442
5.6396	1.9585
5.7848	1.9053
5.9188	1.8552
6.1246	1.7754
6.3593	1.6796
6.5565	1.5954
6.7013	1.5307
6.9143	1.4315
7.1815	1.7665
7.2455	1.2665
7.4502	1.1568
7.5569	1.0969

76

TABLE VI
DIMENSIONAL DESCRIPTION
SRM NOZZLES N_{17}

$M = 0.9, 1.2; \quad \epsilon = 7.0$

NONDIMENSIONAL COORDINATES

initial angle = 23° $r^* = 0.509$ in.
exit lip angle = 11°

POINT NO.	AXIAL X/r^*	RADIAL r/r^*	NOZZLE GEOMETRY
1	0.00000	1.00000	Throat Plane
2	0.04689	1.00184	
3	0.11719	1.01155	Circular arc
4	0.16409	1.02286	section
5	0.21098	1.03832	
6	0.23443	1.04766	Conical
7	0.54862	1.18106	section
8	0.80001	1.28777	
9	0.86284	1.31443	Contoured
10	1.13502	1.42312	section
11	1.50148	1.57291	
12	1.93249	1.73122	
13	2.29137	1.85372	
14	2.67702	1.97678	
15	3.08772	2.09868	
16	3.52343	2.21816	
17	3.98088	2.33472	
18	4.45984	2.44695	
19	4.79089	2.51908	
20	5.13099	2.58921	
21	5.42124	2.64578	Exit Plane

77

Figure 1. - Axis Systems.
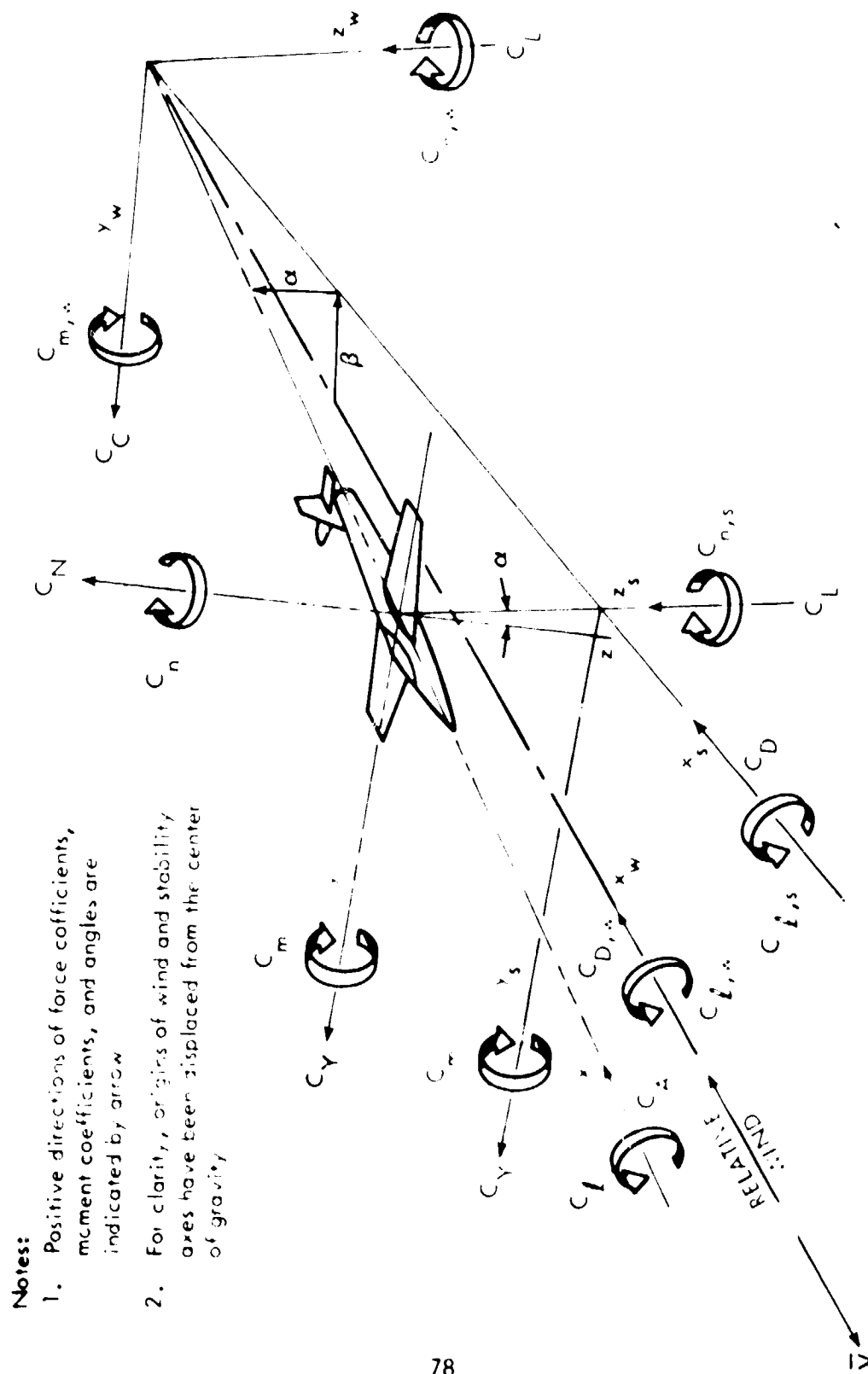
Notes:

1. Positive directions of force cofficients, moment coefficients, and angles are indicated by arrow

2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

78

Nozzle Pitch Plane

Orbiter
Aft
Body

Nozzle —
Yaw Plane

Nozzle
₵

$+\alpha$

$+\psi$

1

Nozzle
₵

3

Line
Perpendicular
to Orbiter
Water Plane

Nozzle
₵

2

13°

1.: Upper MPS Nozzle
Gimbal Point

2.: Bottom-Left MPS
Nozzle Gimbal Point

3.: Bottom-Right MPS
Nozzle Gimbal Point
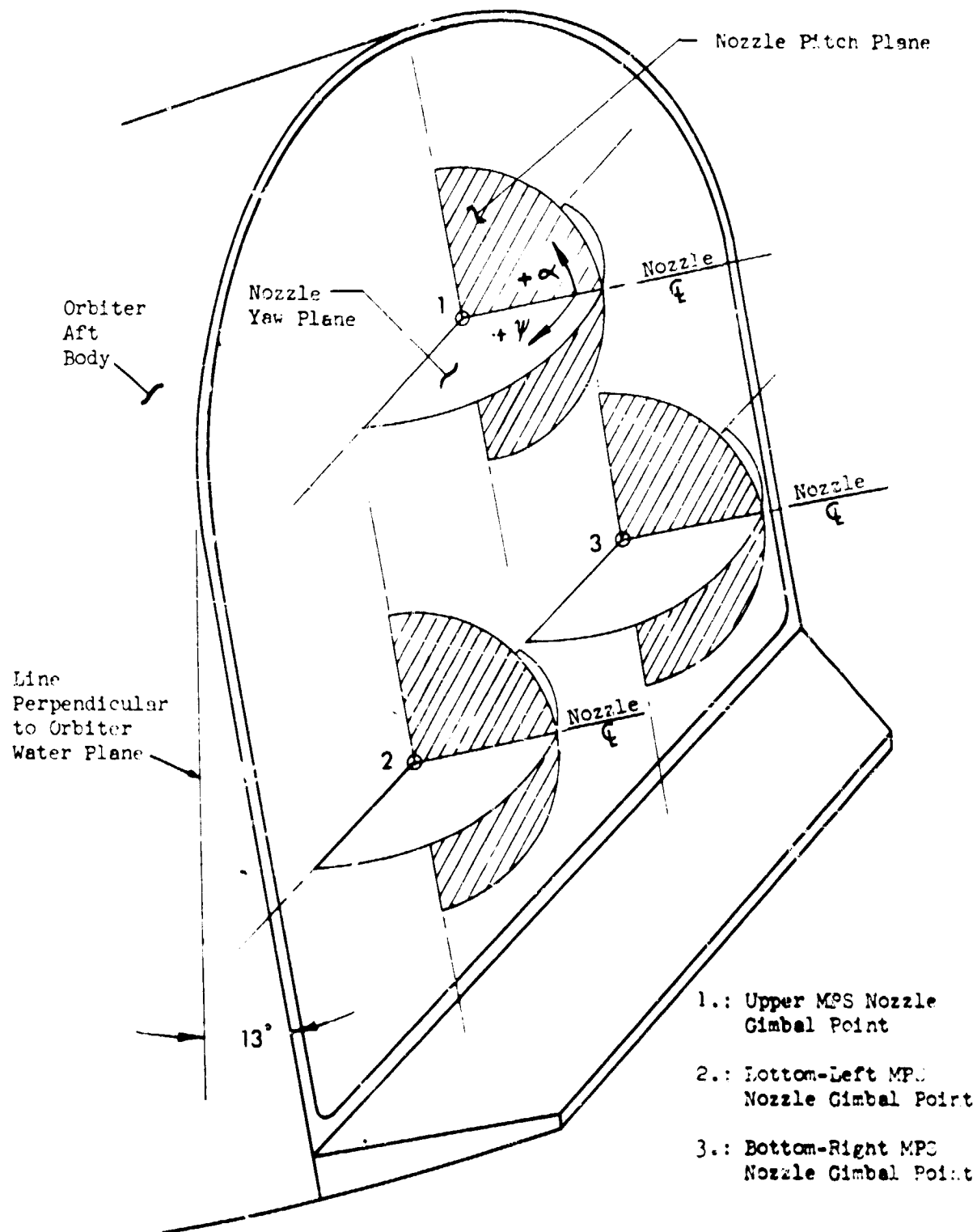
Figure 2.a. - Gimbal Planes and Sign Conventions.

79

This plane is parallel to the
nozzle base plate. All gimbal
angles are set and measured
with reference to this
plane.

Nozzle Pitch
Plane (shaded)

$\phi = 0°$

$\phi = 90°$

$360° - \phi$

α

Gimbel
Origin ₵

θ

ψ

γ

Nozzle
₵

$\phi = 270°$

Nozzle Yaw Plane

$\phi = 180°$
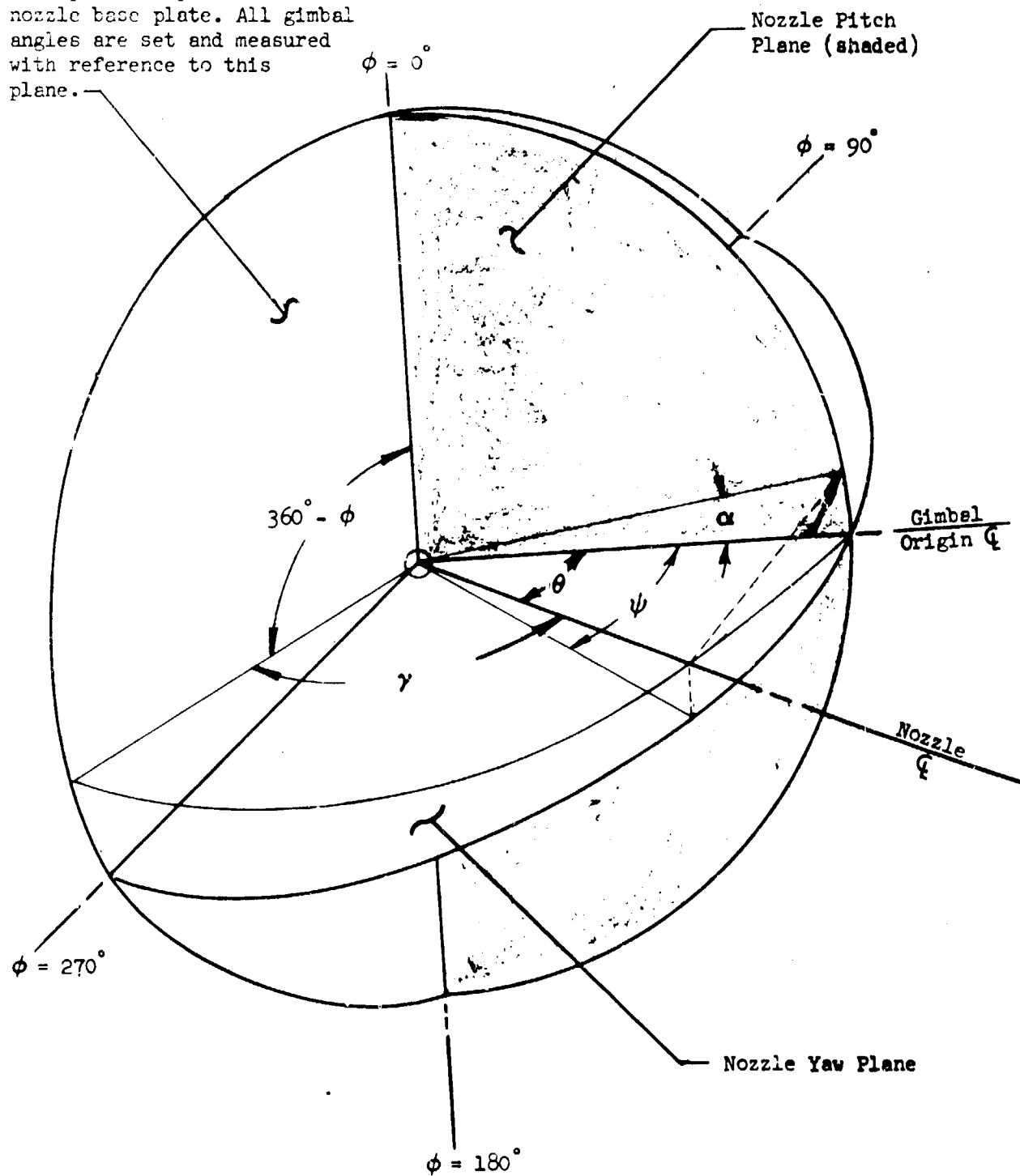
Figure 2.b.- Nozzle Gimbal Angle.

80

Angle of Sideslip, β
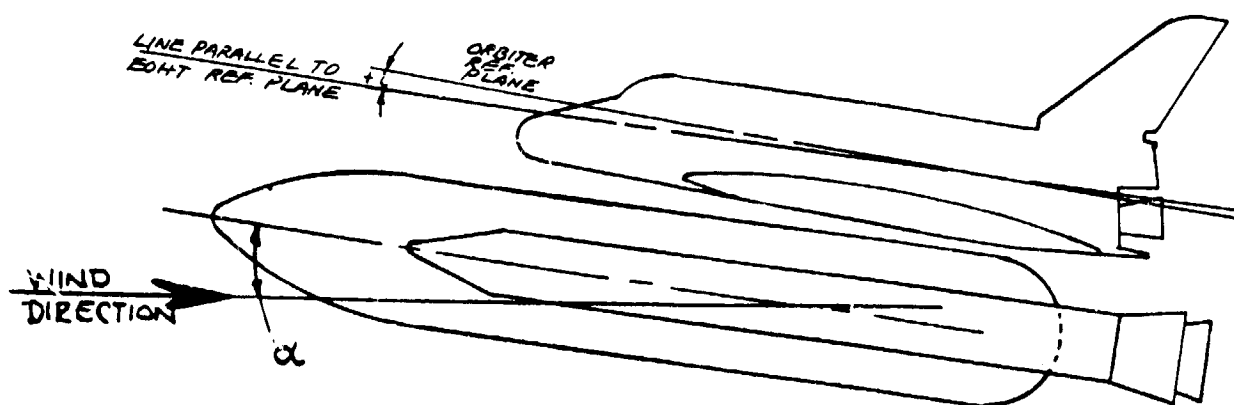
Angle of Attack, α, and Angle of Incidence, i

Figure 2.c. - Sign Convention for Angle of Sideslip, Angle of Attack, and Incidence Angle.
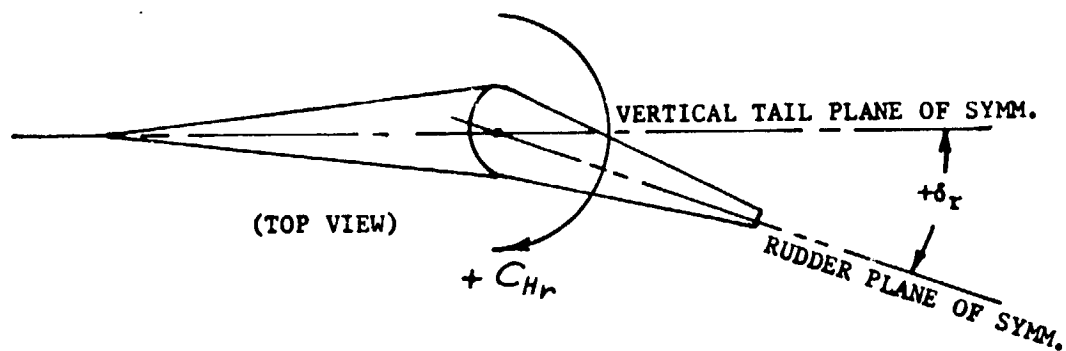
Rudder Deflection Angle, δ_r
and hinge moment, C_{H_r}
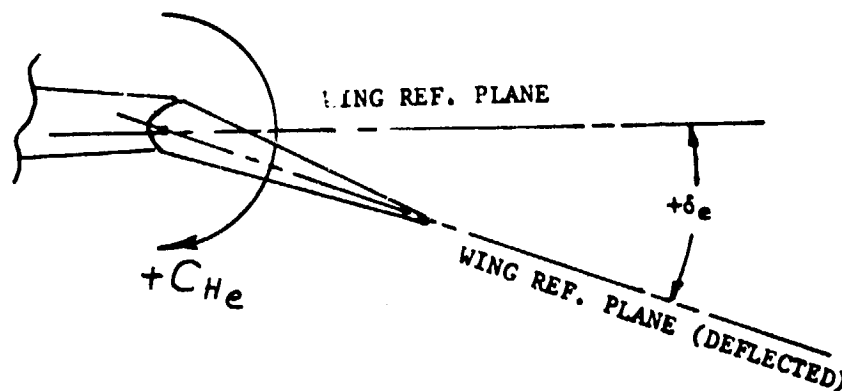
Elevon Deflection Angle, δ_e
and hinge moment, C_{H_e}

Figure 2.d. - Sign Convention for Rudder and Elevon Deflections.
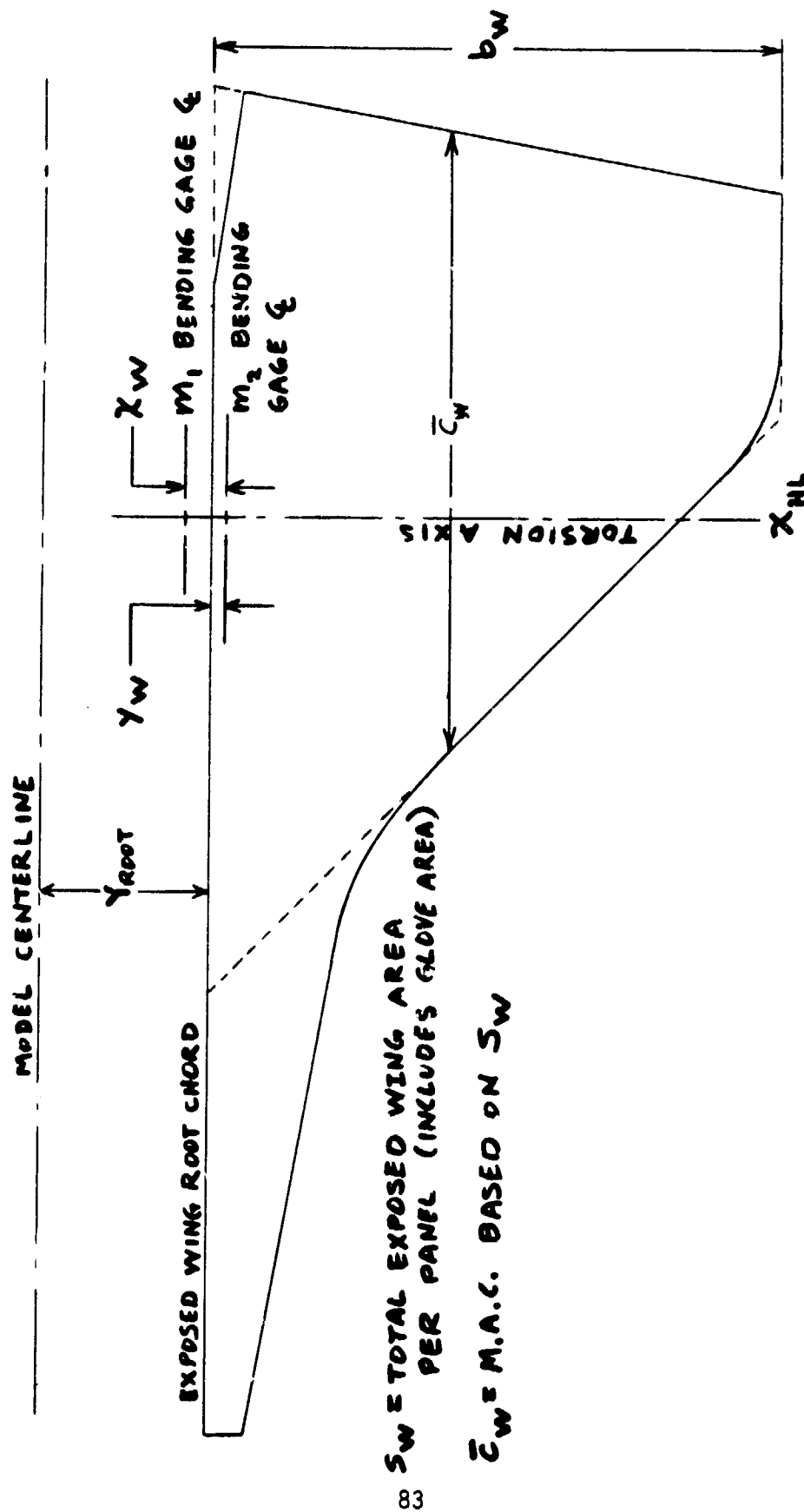
Figure 2.e. – Wing Hinge Moment Data Reduction Dimensions.

83

2.5" TASK MKⅢ
BALANCE CENTER
$X_T = 25.125$"
$Y_T = 0.0$"
$Z_T = 7.60$"

MRP
$X_T = 18.09$"
$Y_T = 0.0$"
$Z_T = 7.60$"

N_1 Y_1

Y_2 N_2

BOTTOM BALANCE PIN HOLE
$X_T = 23.529$"

BALANCE ℄
$e = 0.0$"

$a = -2.783$"
$f = -3.533$"
$g = -10.533$"
$d = -11.283$"
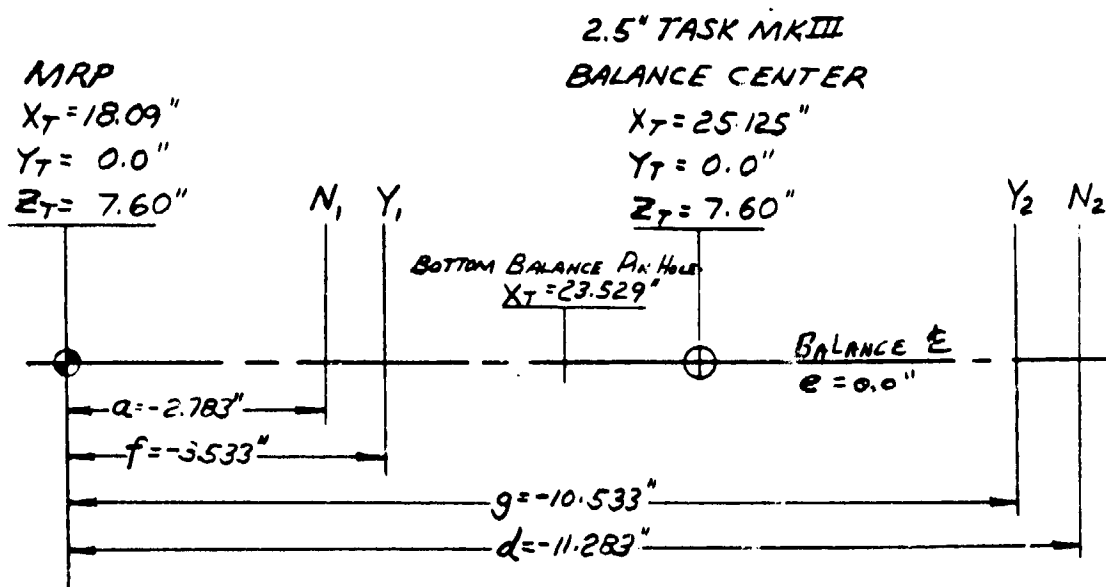
Figure 2.f. - Moment Transfer Diagram.

84
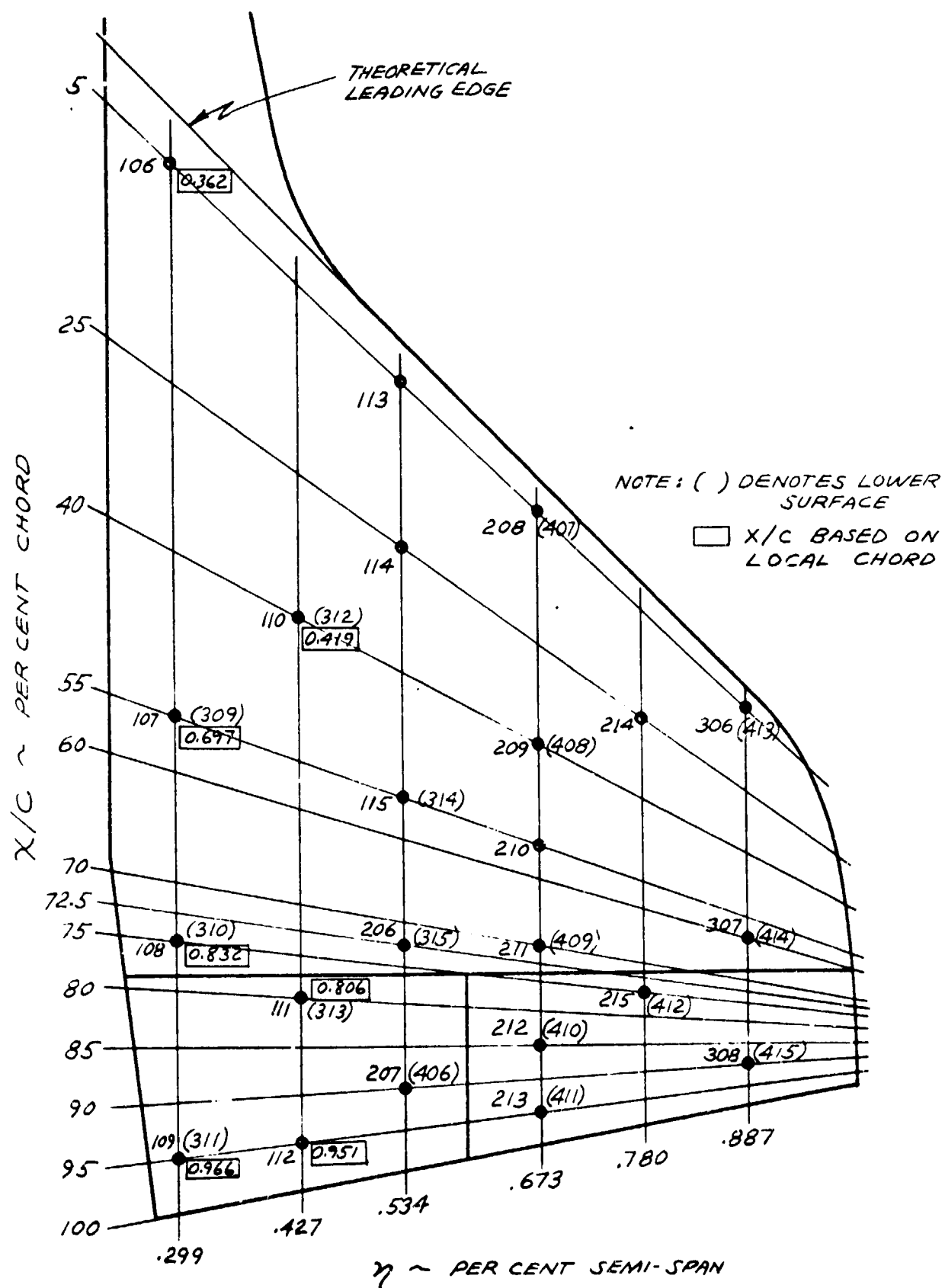
Figure 3.a. - Wing Pressure Tap Locations
for Right Hand Wing Panel.
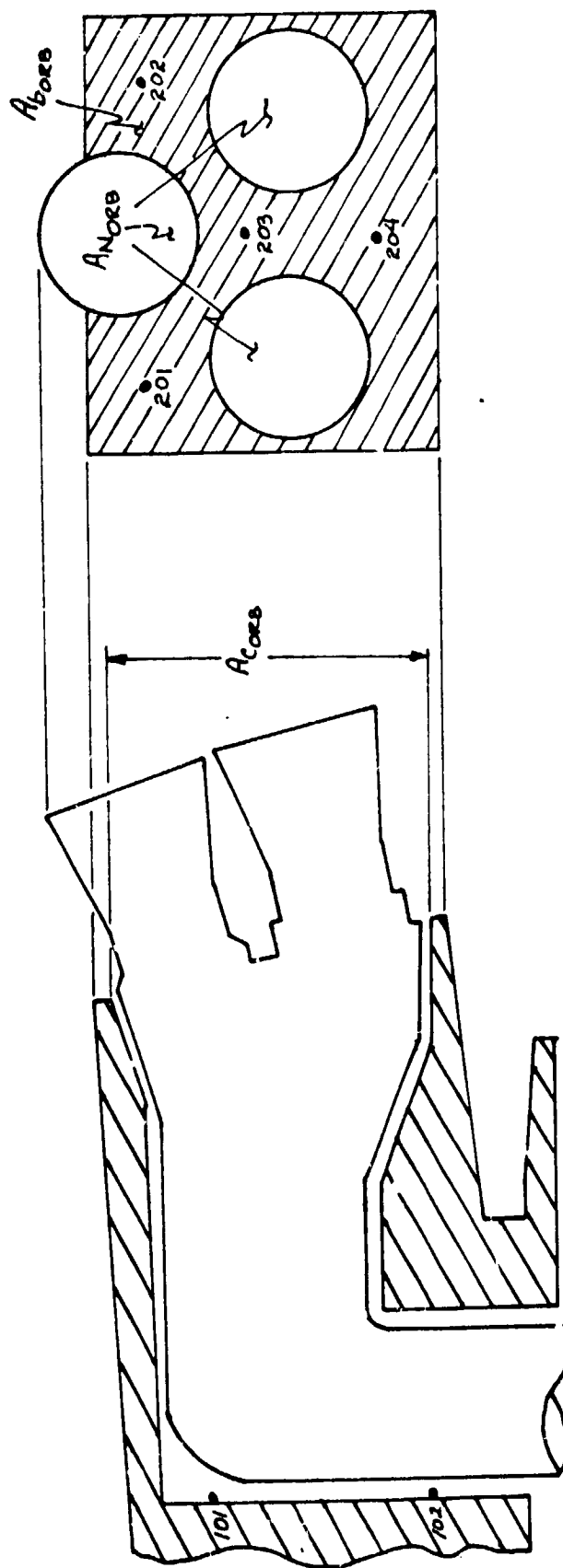
Figure 3.b. - Orbiter Base and Cavity Pressure Tap Locations.

86
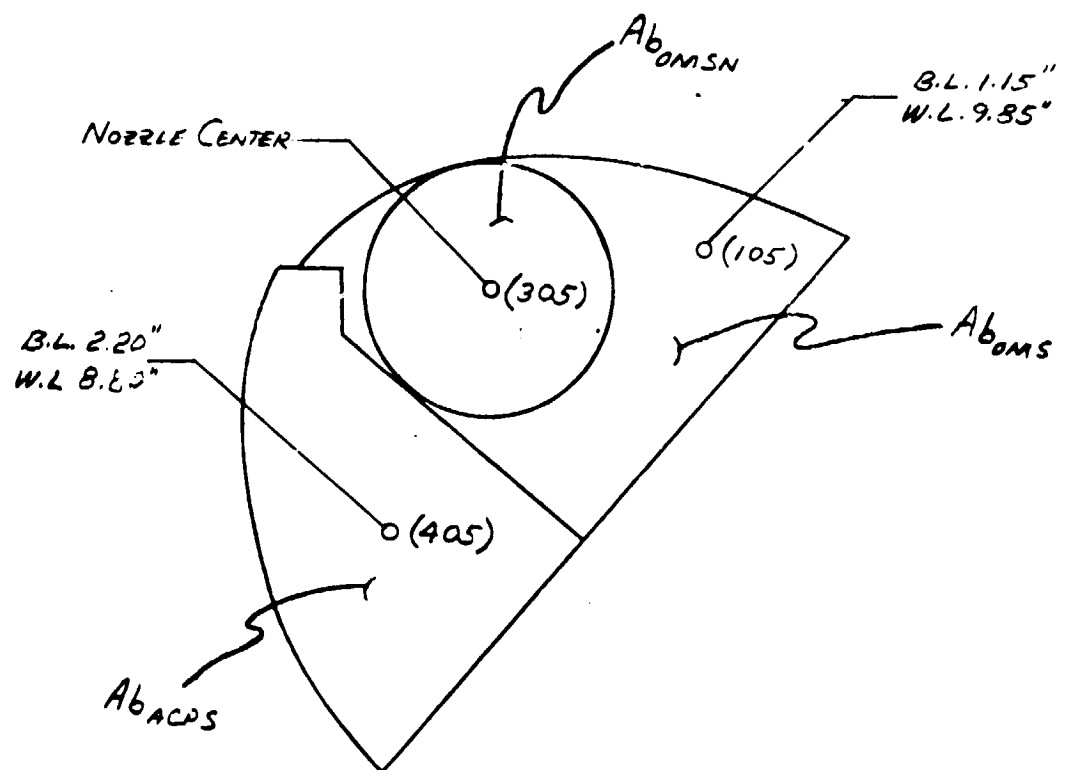
Figure 3.c. - OMS Pod Base Static Pressure Tap Locations.
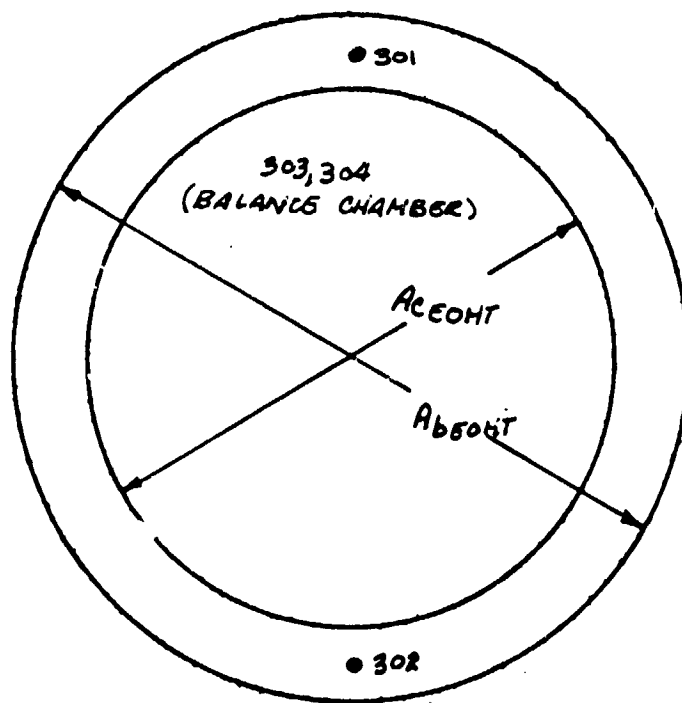
Figure 3.d. - EOHT Pressure Tap Locations.

88
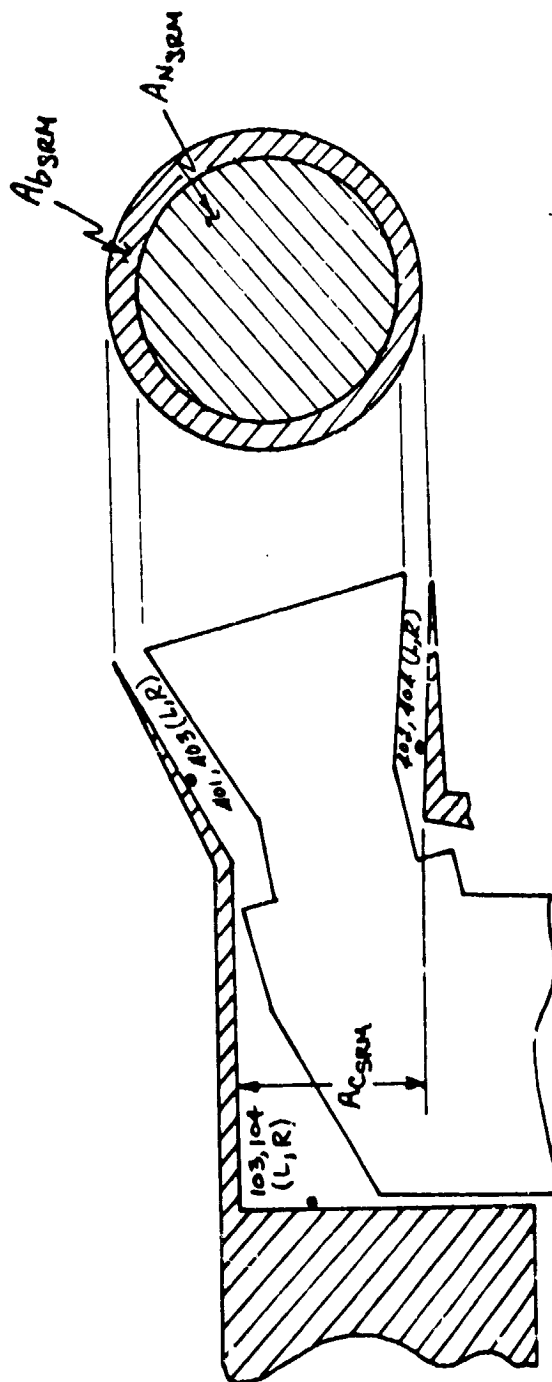
Figure 3 e. - SRM Pressure Tap Locations.

Figure 4. – Ascent Vehicle Configuration.

ORBITER REF. PLANE IS PARALLEL TO TANK REF. PLANE

$Z_T = 400$ in

243 in

956 in

$Z_o = 400$ in
FRL

511 in

ET $\overline{C}$

$X_T = 953.0$ in

1502.1 in

644 in

1741 in

1865.0 in

2175.0 in

$X_T = 753$ in

344.4 in

$X_T = 743$ in

$X_T = 309$ in

MRP

MRP

90

936.68 in.

415.72 in.

FRL Z_o=400 in.

1328.3 in.

STA
X_o = 200 in.
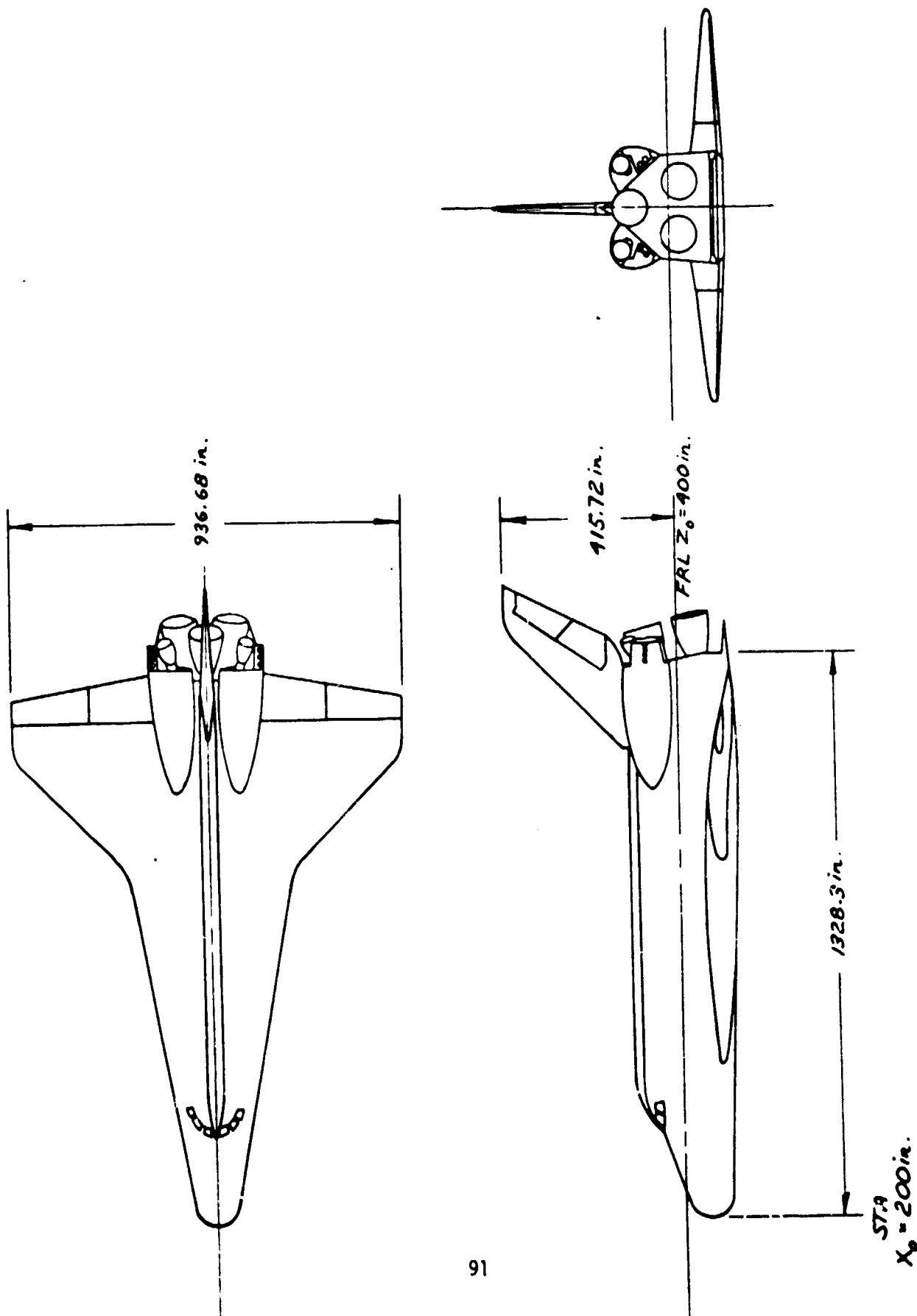
Figure 4.a. – 2A Orbiter, Basic Dimensions.

91
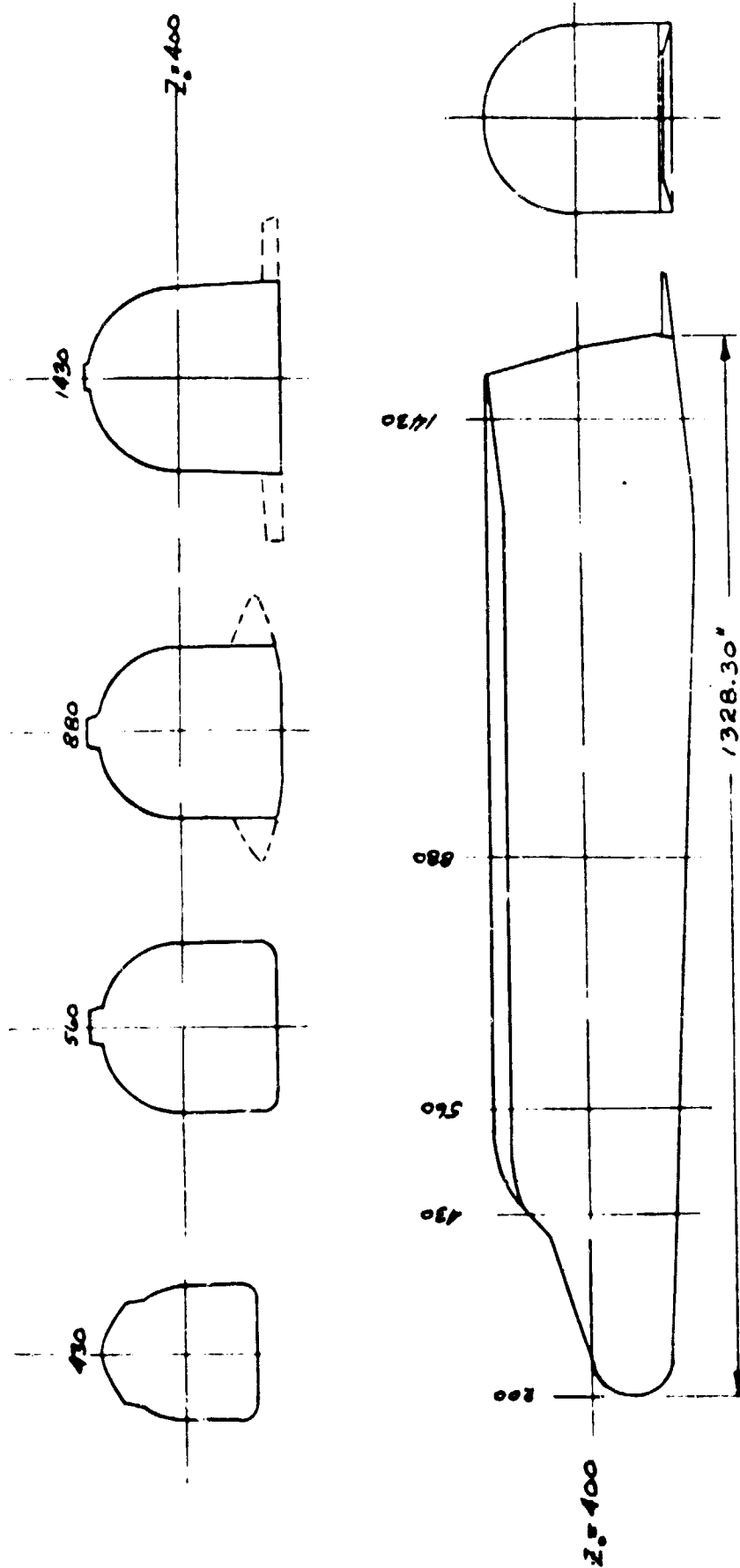
Figure 4.b. - 2A Orbiter, Fuselage with Body Flap.

$Y_b = 105.0$

$Y_b = 199.045$

$Y_b = 461.341$

93

Figure 4.c. - 2A Orbiter, Wing.

108.47 in

315.720 in

268.500 in
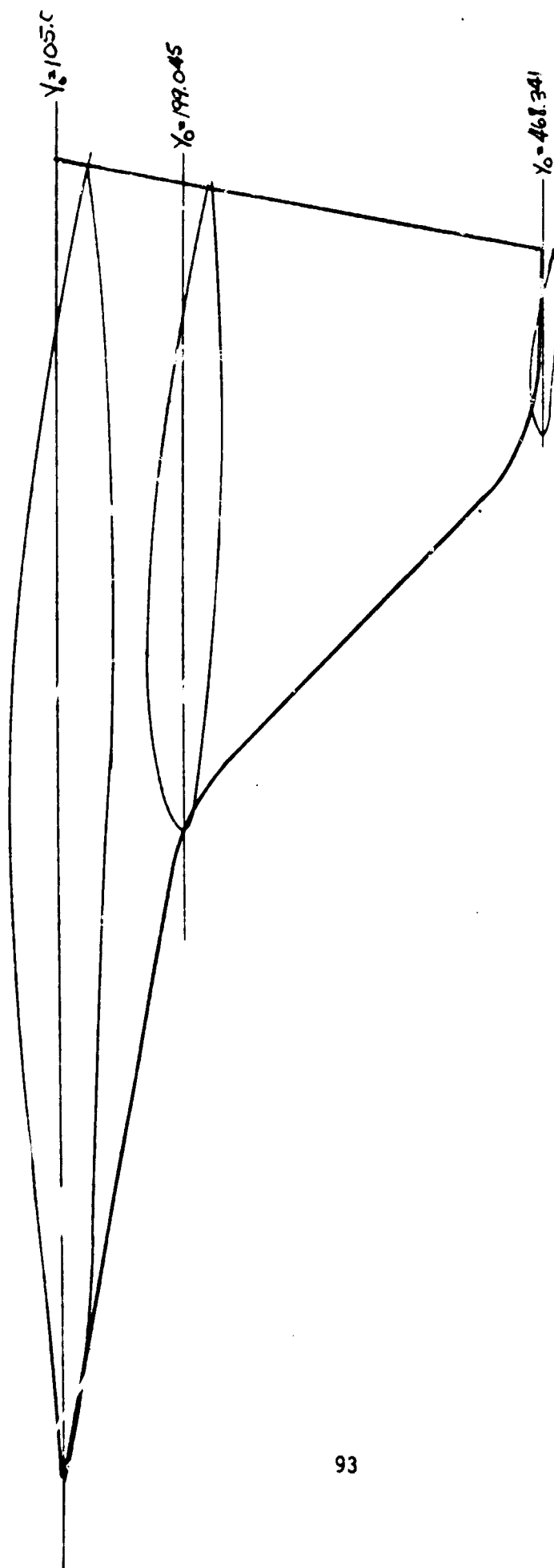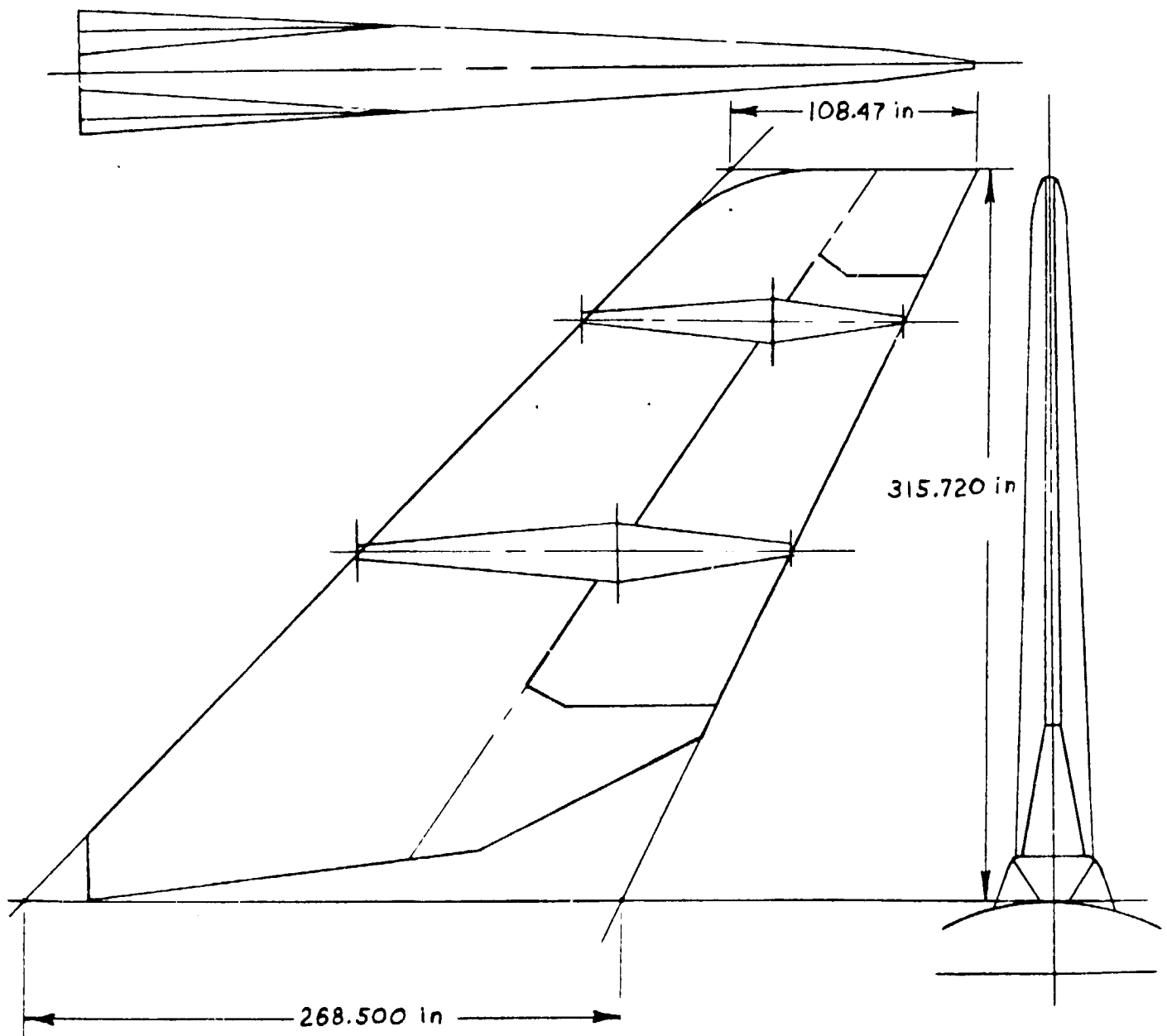
Figure 4.d. – 2A Orbiter, Vertical Tail.

94
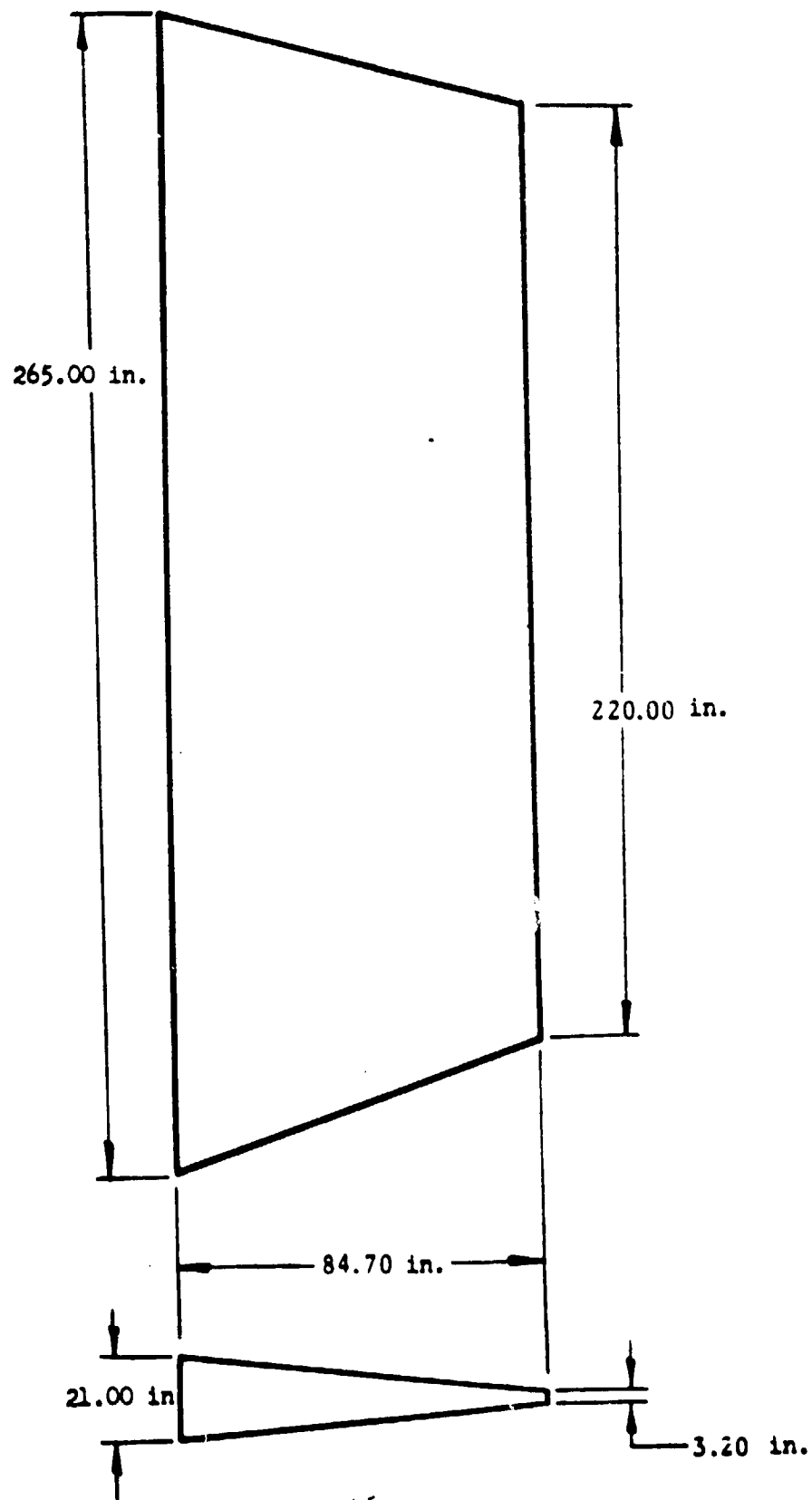
Figure 4.e. – 2A Orbiter, Body Flap, F4.

95

Figure 4.5. – 2A Orbiter, OMS Pod.

113.8"

346"
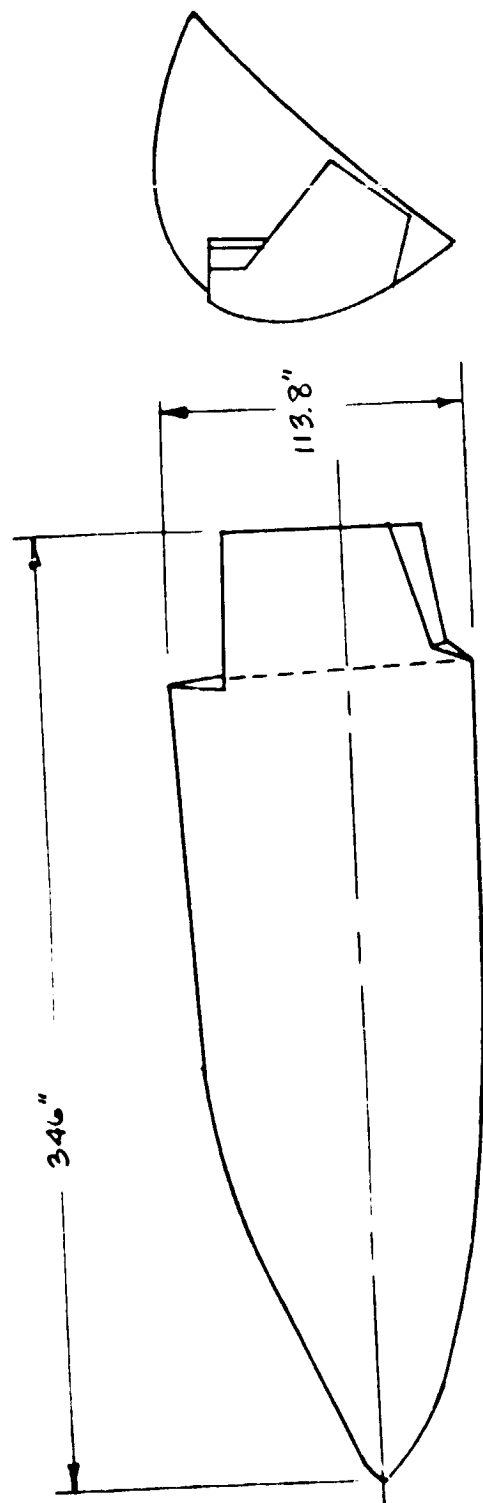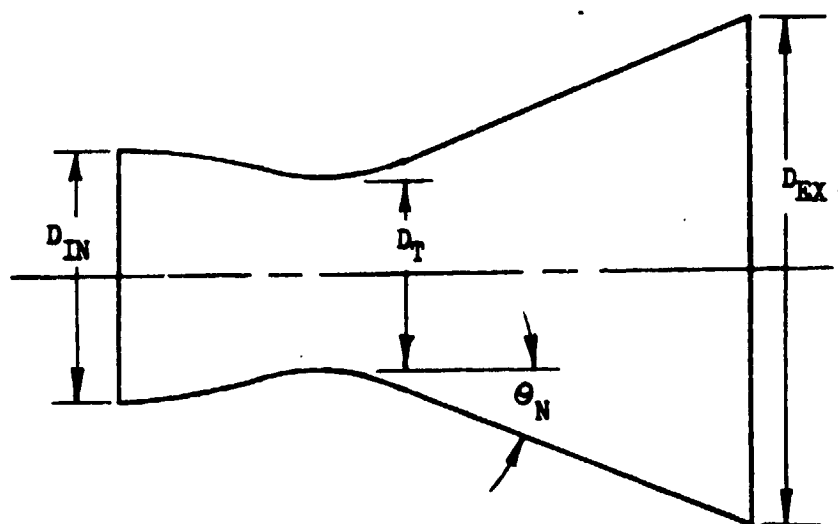
Figure 4.g. - 2A Orbiter, Nozzle.

Nozzles N_9, N_{10}

N_9, N_{10}
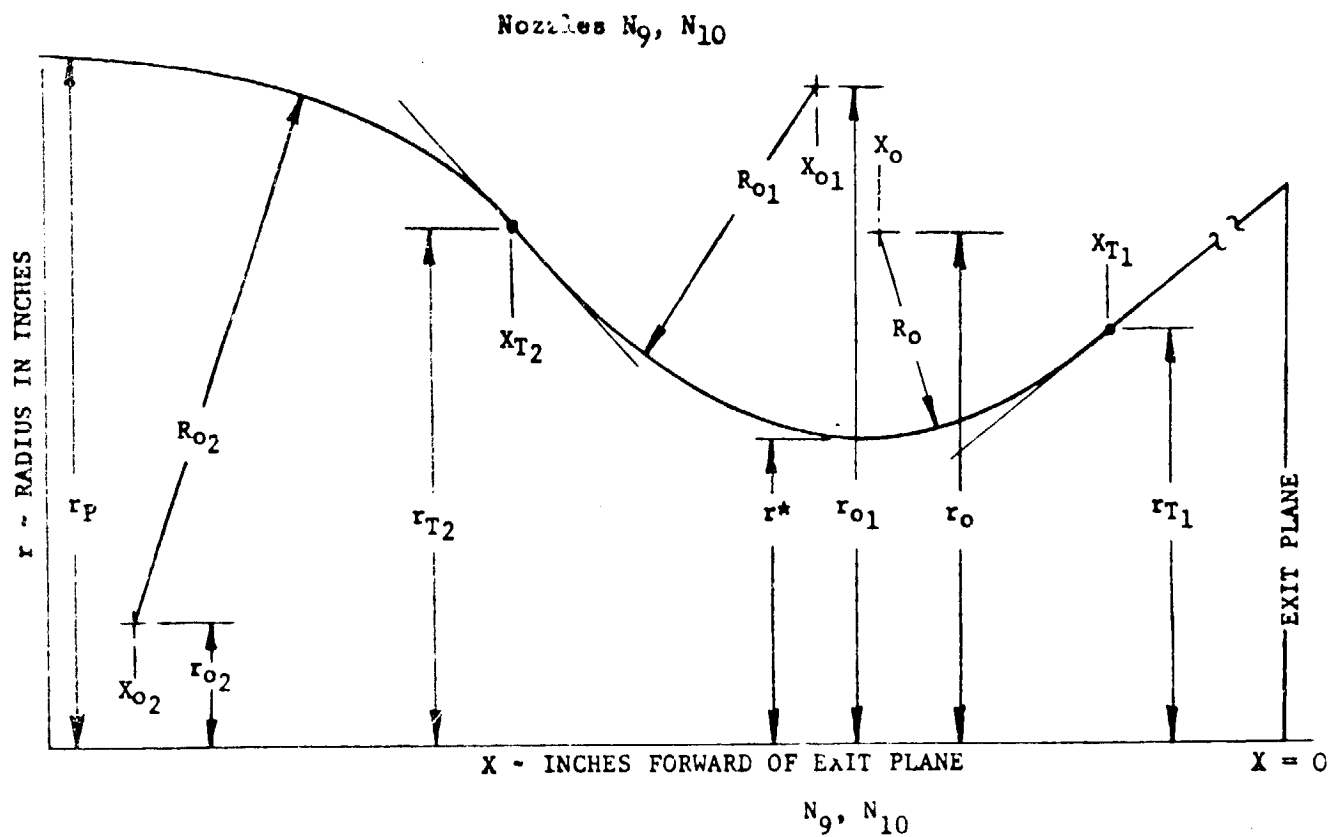
X_{T_1}	2.0192
r_{T_1}	0.2931
R_o	0.2003
X_o	2.1178
r_o	0.4675
R_{o_1}	0.2003
X_{o_1}	2.1178
r_{o_1}	0.4675
r^*	0.2672
X_{T_2}	2.2239
r_{T_2}	0.2977
X_{o_2}	2.4231
r_{o_2}	-0.0212
R_{o_2}	0.3759
r_p	0.3547

DESIGN INFORMATION FOR ORB-1-ABC NOZZLE CONTOURS

(Mach Nos. 0.9, 1.25, 1.55, 2.0 3.0, and 3.5)

Figure 4.8. - Concluded.

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Figure 5. — Solid Rocket Motor Configurations, S_{10}, S_{11}, and S_6 with N_{18}.

EXTERNAL TANK
T_{10}

16.5 IN RADIUS

100

ET/SRM REF. PLANE
$Z_T = 400$ in

324 IN. DIA.

402 in

1743 in

1865.0 in

$X_T = 309$ in
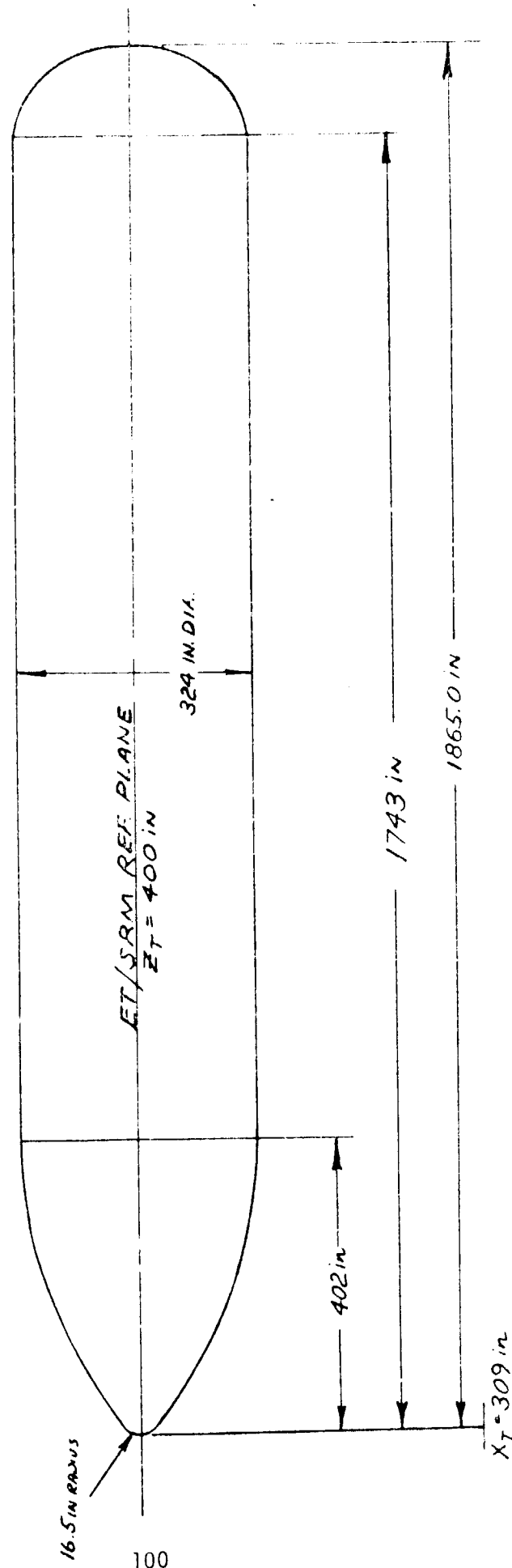
Figure 6. - External Tank Configuration, T_{10}.
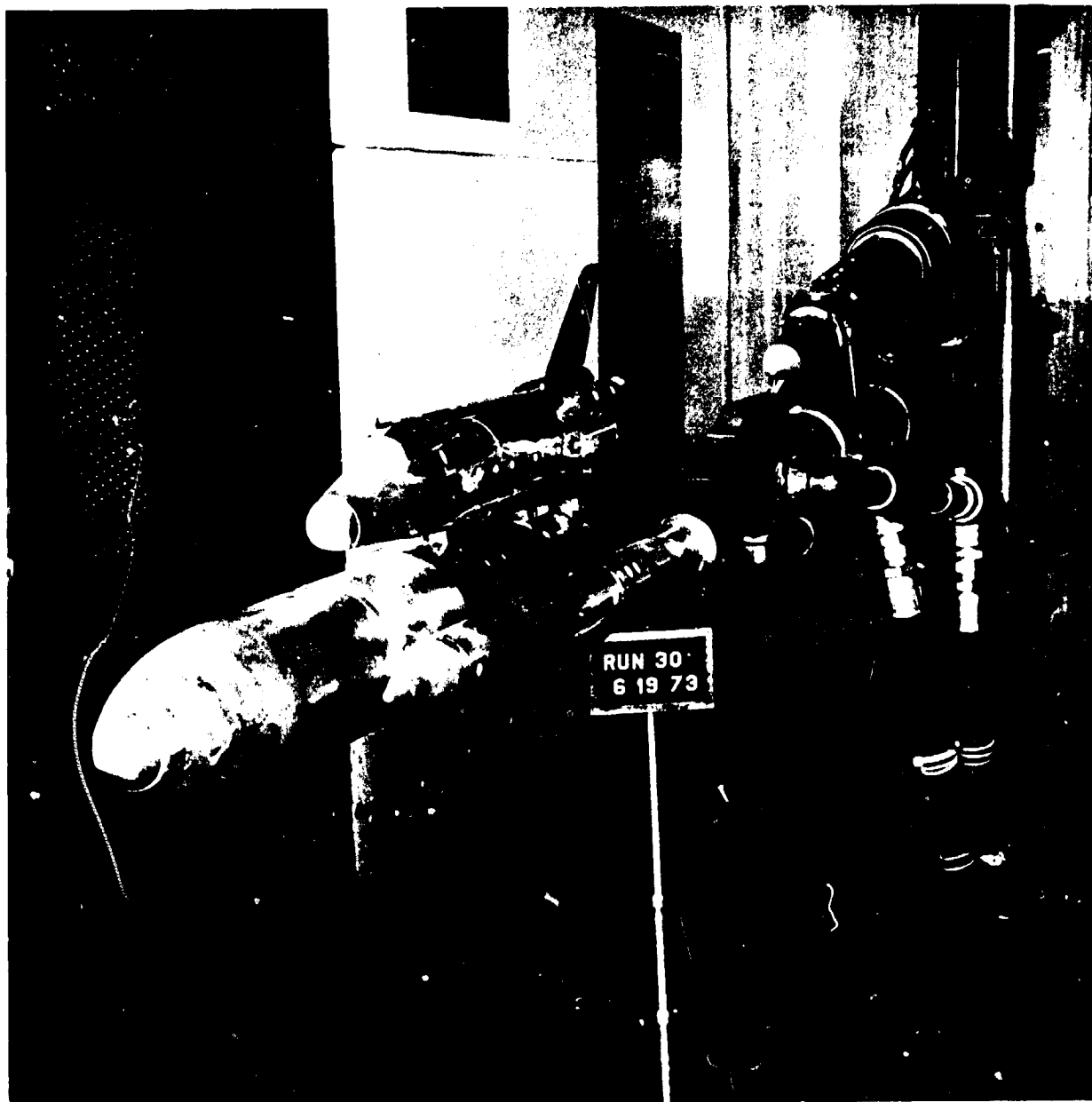
Figure 7.a. - Front View of Integrated Vehicle.

101
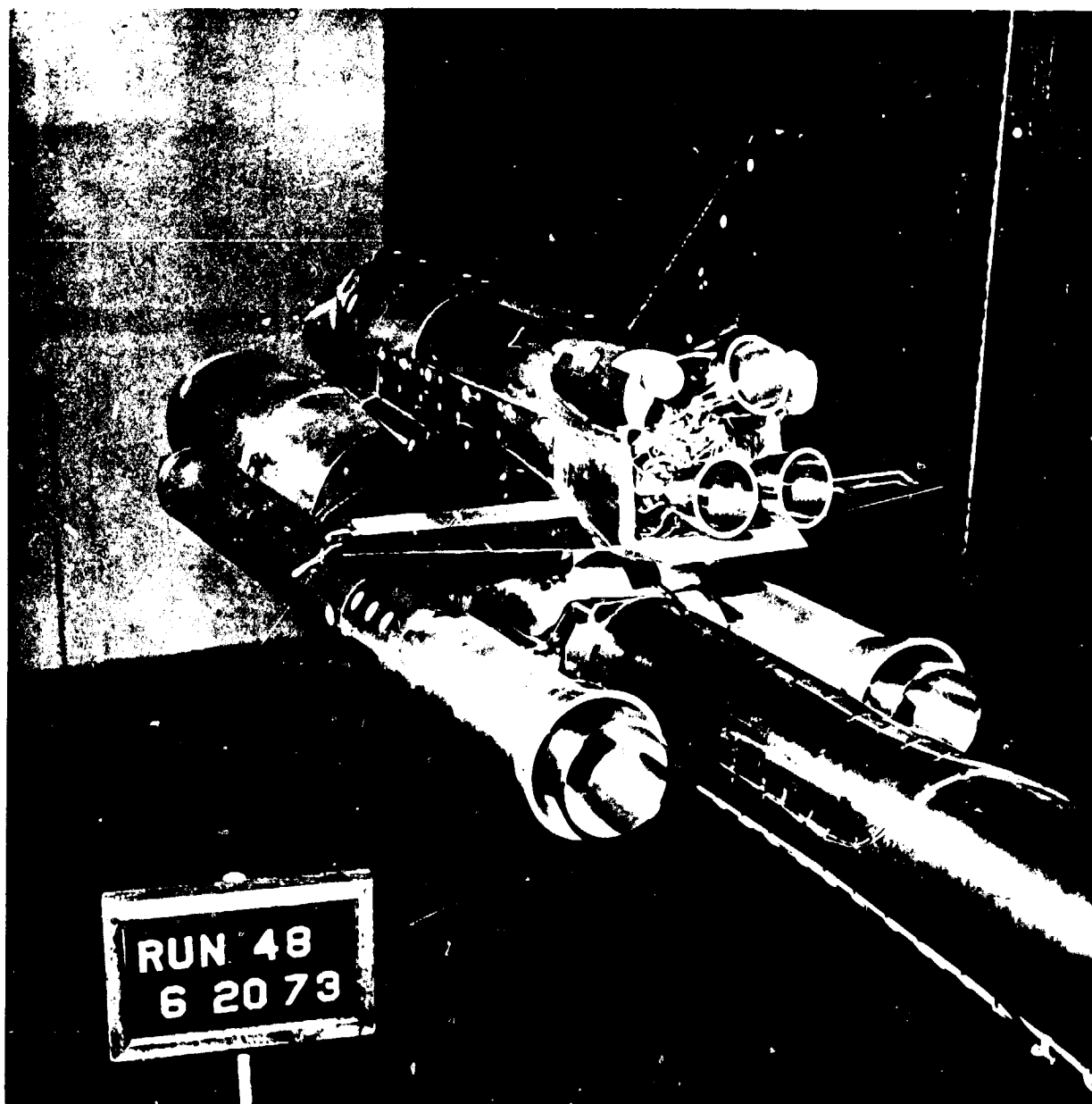
Figure 7.b. - Aft View of Integrated Vehicle with Orbiter Nozzle Gimbaled.
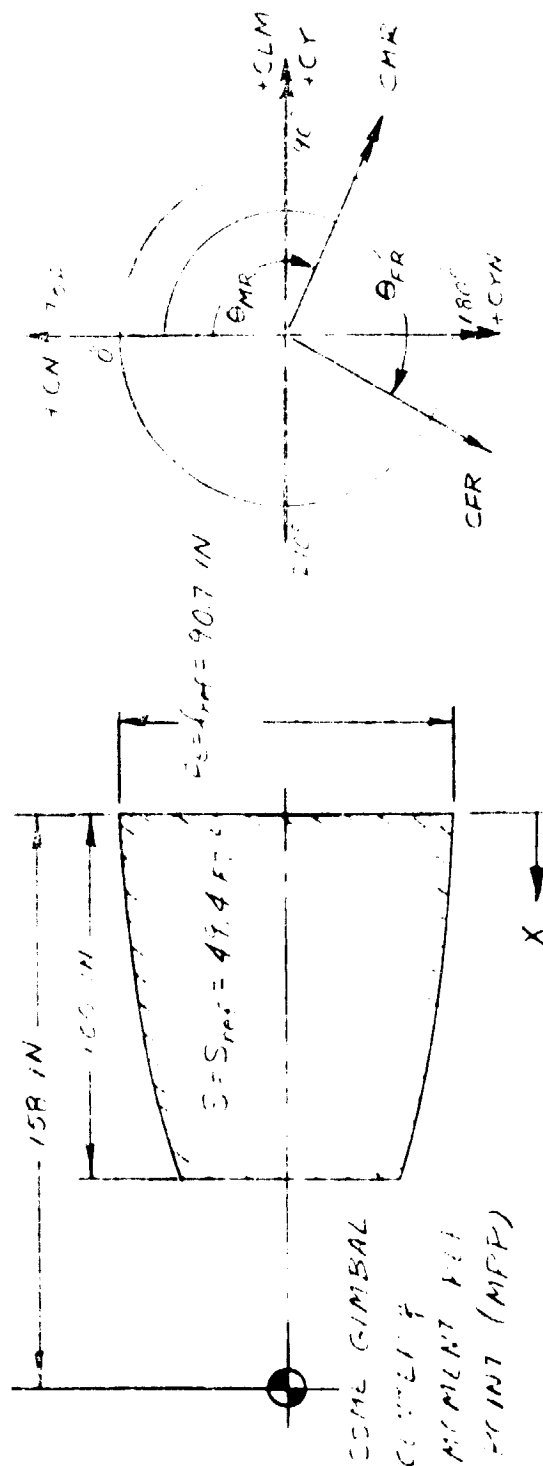
Figure 8.   SSME Nozzle Loads Nomenclature.

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APPENDIX

TABULATED DATA

VOLUME 2

CALSPAN T14-053   02 T1 S1   1A35   (RUF015)   (26 SEP 73)

PARAMETRIC DATA

REFERENCE DATA

SREF	=	2690.0004	FT.SQ	XMRP	=	953.0001	INCHES
LREF	=	1328.0002	INCHES	YMRP	=	.0000	INCHES
BREF	=	1328.0002	INCHES	ZMRP	=	400.0000	INCHES
SCALE	=	.0150					

BETA   =   .000   MPSRA =   .000
POWER =   RUDDER =   .000

RUN NO.   15/ 0   RN/L = 2.82   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.905	-7.760	-.45510	.14780	.15130	.18733	.22476	-.03110	.02170	-.00530	-.13900	.01160
.903	-3.730	-.21730	.04830	.05220	.12056	.21641	-.02970	.02000	-.00100	-.00950	.00210
.901	-.010	-.01360	-.00560	-.00600	.11035	.21391	-.03080	.02270	-.00490	-.13540	.00010
.901	3.700	.21690	-.11010	-.10690	.10893	.20566	-.02660	.02160	-.00500	.24920	.00950
.901	7.670	.49740	-.16760	-.16760	.10422	.19505	-.02150	.01730	-.00520	.33070	.01400
.901	GRADIENT	.05547	-.02516	-.02526	-.00455	-.00197	-.00015	-.00008	-.00000	.03214	-.00408

CALSPAN T14-053   02 T1 S1   1A35   (RUF018)   (26 SEP 73)

PARAMETRIC DATA

REFERENCE DATA

SREF	=	2690.0004	FT.SQ	XMRP	=	953.0001	INCHES
LREF	=	1328.0002	INCHES	YMRP	=	.0000	INCHES
BREF	=	1328.0002	INCHES	ZMRP	=	400.0000	INCHES
SCALE	=	.0150					

BETA   =   .000   MPSRA =   .000
POWER =   RUDDER =   .000

RUN NO.   18/ 0   RN/L = 2.99   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.200	-8.100	-.53610	.20310	.20960	.23258	.38115	-.00630	.00100	-.00170	-.19050	-.00240
1.001	-.120	-.01070	.00610	.01650	.23951	.38457	-.00790	.00120	-.00220	-.11350	-.00400
1.201	-4.050	-.26000	.10800	.10200	.24242	.38592	-.00740	.00250	-.00250	-.02020	.00590
	GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 3

REFERENCE DATA   CALSPAN T14-053   02 T1 S1   1A36   (RUF022)   (26 SEP 73)

PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA = .000   MPSRA = .000
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   POWER = .000   RUDDER = .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

RUN NO. 22/ 0   RN/L = 2.17   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.178	-8.130	-.54840	.20770	.21280	.33084	.38602	.00220	-.00370	-.00050	-.19010	-.00270
1.179	-6.020	-.39460	.14670	.15290	.27825	.38339	.00090	-.00300	-.00110	-.09640	-.00410
1.177	-4.060	-.25690	.09260	.09920	.25673	.38234	-.00160	-.00100	-.00170	-.01240	-.00500
1.176	-2.030	-.12150	.03500	.04160	.26731	.38775	-.00360	-.00050	-.00190	-.06760	-.00830
1.172	-.010	.00520	-.01740	-.01090	.27231	.38649	-.00620	.00240	-.00220	.14150	-.01080
1.172	2.050	.13390	-.06620	-.05980	.28185	.38198	-.00770	.00390	-.00250	.21940	-.01310
1.175	4.050	.25800	-.11440	-.10740	.25975	.37266	-.01020	.00790	-.00290	.26700	-.01210
1.176	6.020	.37480	-.15950	-.15240	.25912	.36927	-.01050	.00930	-.00360	.33590	-.01500
GRADIENT		.06331	-.02538	-.02535	.00102	-.00124	-.00105	.00104	-.00015	.03501	-.00094

REFERENCE DATA   CALSPAN T14-053   02 T1 S1   1A36   (RUF023)   (26 SEP 73)

PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   ALPHA = .000   MPSRA = .000
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   POWER = .000   RUDDER = .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

RUN NO. 23/ 0   RN/L = 2.15   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.195	-6.080	-.00990	-.01590	-.00910	.24852	.37387	.31340	-.14200	.05370	.26540	-.02110
1.176	-3.060	-.00820	-.01470	-.00790	.24749	.37442	.21330	-.10200	.03660	.22740	-.01720
1.172	-2.030	.00120	-.01790	-.01100	.25245	.37623	.10960	-.05750	.01780	.19040	-.01300
1.178	.000	.00770	-.01830	-.01160	.26519	.38439	-.00760	.00320	-.00230	.14480	-.01120
1.172	2.030	-.00360	-.01390	-.00700	.24645	.36762	-.11590	.05790	-.02110	.06370	-.00590
1.175	3.060	-.01040	-.01210	-.00520	.24765	.36282	-.21380	.09990	-.03900	.00010	-.00470
1.178	6.080	-.01610	-.01140	-.00460	.25224	.36138	-.32070	.14050	-.05560	-.04300	-.00120
GRADIENT		-.00061	.00060	.00061	-.00043	-.00211	-.06543	.03169	-.01151	-.03533	.00195

CALSPAN T14-053   02 T1 S: 1A36   (RUF024)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP =	953.0001	INCHES
LREF = 1328.0002 INCHES	YMRP =	.0000	INCHES
BREF = 1328.0002 INCHES	ZMRP =	400.0000	INCHES
SCALE = .0190			

PARAMETRIC DATA

BETA =	.000	MPSRA =	.000
POWER =	1.000	CPR =	36.200
SRMPR =	2.330	RUDDER =	.000

RUN NO. 24/ 0   RN/L = 2.16   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLM	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.137	-8.150	-.53390	.19620	.20210	.23704	.35028	.00090	-.00400	-.00060	-.19430	-.00140
1.312	-6.050	-.38290	.13860	.14460	.23370	.35510	-.00240	-.00260	.00120	-.11970	.00330
1.191	-4.100	-.24510	.08300	.08890	.25369	.35441	-.00340	-.00100	-.00170	-.00940	.00480
1.199	-2.040	-.10650	.02330	.02890	.25058	.35048	.00530	.00100	.00190	.07400	.00750
1.193	-.040	.01190	-.02460	-.01860	.24730	.35213	.01310	.00840	.00220	.15120	.00980
1.196	1.950	.14400	-.07610	-.07050	.25869	.35299	.00720	.00210	.00180	.22200	.01250
GRADIENT		.06381	-.02607	-.02610	.00057	-.00013	-.00096	.00083	.00006	.03829	.00126

CALSPAN T14-053   02 T1 S1   1A36   (RUF025)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP =	953.0001	INCHES
LREF = 1328.0002 INCHES	YMRP =	.0000	INCHES
BREF = 1328.0002 INCHES	ZMRP =	400.0000	INCHES
SCALE = .0190			

PARAMETRIC DATA

ALPHA =	1.000	MPSRA =	.000
POWER =	1.000	OPR =	36.200
SRMPR =	2.330	RUDDER =	.000

RUN NO. 25/ 0   RN/L = 2.13   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.183	-6.080	.00040	-.02610	-.01940	.22869	.34474	.31240	-.14020	.05330	.27370	-.02120
1.197	.000	.01540	.02550	-.02000	.24681	.35181	.00440	.00140	.00150	.15390	-.00970
1.195	3.050	-.00350	-.02220	-.01660	.23625	.33663	-.16260	.07740	-.02910	.03060	-.00420
1.170	6.080	-.00910	-.01690	-.01120	.22601	.32937	-.30900	.12730	-.05450	.03020	.00090
GRADIENT		-.00390	.00111	.00111	-.00343	-.00498	-.05187	.02492	-.00905	-.04043	.00180

CALSPAN T14-053   02 T1 S1   1A36   (RUF026)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000   MPSRA = .000
POWER = .000   RUDDER = .000

RUN NO. 26/ 0   RN/L = 4.89   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	C'	CB	CNW	CHW
1.279	-8.080	-.43960	.15880	.16380	.10138	.22470	-.02440	.1690	-.00380	-.13930	.01310
1.278	-4.010	-.22470	.05330	.05767	.11324	.22711	-.02600	.01930	-.00450	.00620	.00400
1.280	-.020	.01670	-.04570	-.04110	.11133	.22824	-.02820	.01970	-.00400	.14110	-.00770
1.281	3.980	.23990	-.12190	-.1177C	.10791	.21793	-.02740	.01930	-.00500	.25670	-.03030
1.281	6.020	.34090	-.15000	-.14550	.10084	.21887	-.02390	.01720	-.00560	.29810	-.04030
	GRADIENT	.05815	-.02193	-.02194	-.00067	-.00115	-.00018	.00006	-.00006	.03135	-.00429

CALSPAN T14-053   02 T1 S1   1A36   (RUF027)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

ALPHA = .000   MPSRA = .000
POWER = .000   RUDDER = .000

RUN NO. 27/ 0   RN/L = 4.90   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.278	-6.080	.00010	-.03830	-.03790	.10439	.21371	.29920	-.13440	.04870	.23260	-.03830
1.285	-3.050	.01350	-.04460	-.04050	.10913	.21670	.14490	-.06730	.02450	.21150	-.02380
1.279	.000	.02020	-.04670	-.04230	.11399	.22806	-.02480	.01780	-.00330	.15900	-.00750
1.284	3.050	.01600	-.04560	-.04190	.11215	.22118	-.17970	.09360	-.02870	.10610	-.00590
1.281	6.090	-.00590	-.03330	-.02800	.10423	.22097	-.33490	.15990	-.05320	.05530	.02020
	GRADIENT	.00041	-.00033	-.00023	.00050	.00073	-.05321	.02638	-.00872	-.01728	.00487

CALSPAN T14-053   02 T1 S1   1A36   (RUF028)   (26 SEP 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

PARAMETRIC DATA

BETA =	.000	MPSRA =	.000
POWER =	1.000	OPR =	28.310
SRMPR =	2.020	RUDDER =	.000

RUN NO. 28/ 0   RN/L = 4.72   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CNH
1.286	-8.110	-.48600	.16060	.16680	.12224	.25147	-.02650	.01680	-.00360	-.14320	.01330
1.289	-4.070	-.22520	.05690	.06280	.13834	.25387	-.02980	.02040	-.00450	-.09900	.00430
1.276	-.020	.02370	-.04700	-.04150	.14103	.25323	-.03150	.02100	-.00420	-.15190	.00370
1.296	4.000	.24550	-.12460	-.11940	.12787	.23904	-.02790	.01880	-.00480	-.26340	.02940
1.278	5.980	.34680	-.15250	-.14660	.12746	.24919	-.02550	.01770	-.00570	-.30900	-.04100
GRADIENT		.05833	-.02249	-.02258	-.00129	-.00184	.00023	-.00020	-.00004	.03153	-.00417

CALSPAN T14-053   02 T1 S1   1A36   (RUF029)   (26 SEP 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

PARAMETRIC DATA

ALPHA =	.000	MPSRA =	.000
POWER =	1.000	OPR =	28.310
SRMPR =	2.020	RUDDER =	.000

RUN NO. 29/ 0   PN/L = 4.15   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CNH
1.300	-6.080	.00090	-.03530	-.02950	.11950	.24182	.29860	-.13490	.04670	.22400	-.04070
1.272	-3.050	.01550	-.04390	-.03850	.12910	.24750	.14810	-.07150	.02450	.20750	-.02500
1.286	.000	.02040	-.04390	-.03820	.13266	.25374	-.02610	.01840	-.00350	.15810	-.00830
1.283	3.060	.01410	-.04290	-.04290	.13195	.24427	-.18330	.09470	-.02890	.11040	.00600
1.174	6.090	-.00320	-.03470	-.02840	.11969	.23934	-.33860	.16130	-.05290	.05350	.02040
GRADIENT		-.00023	.00016	.00026	.00047	-.00053	.05424	.02720	-.00874	.01589	.00507

CALSPAN T14-053   02 T1 S1   1A36

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

(RUF030)   (26 SEP 73)

PARAMETRIC DATA

BETA = .000   MPSRA = 30.000
POWER = .000   RUDDER = .000

RUN NO. 30/ 0   RN/L = 2.12   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.205	-8.100	-.54750	.20760	.21360	.28243	.38481	-.00020	-.00300	-.00160	-.20270	-.00250
1.178	-4.030	-.25470	.09320	.09920	.27287	.38562	-.00430	-.00040	-.00300	-.02940	-.00590
1.205	3.980	.24900	-.11010	.10360	.27519	.36832	-.01810	-.01480	-.00530	.24410	.01220
1.205	6.010	.37280	-.15810	-.15190	.24888	.36078	-.01200	.01060	-.00520	.31060	-.01470
1.206	GRADIENT	.06288	-.02538	-.02532	.00029	-.00216	-.00172	.00190	-.00029	.03414	-.00079

CALSPAN T14-053   02 T1 S1   1A3E

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

(RUF031)   (26 SEP 73)

PARAMETRIC DATA

ALPHA = .000   MPSRA = 30.000
POWER = .000   RUDDER = .000

RUN NO. 31/ 0   RN/L = 2.10   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.204	-6.080	-.00890	-.01480	-.00860	.24390	.36765	-.31000	-.14220	.05270	.26520	.02140
1.204	-3.050	-.00360	-.01470	-.00860	.24067	.36892	-.16500	-.08310	.02710	.21290	-.01570
1.203	.000	.00910	-.01810	.01210	.25048	.37774	-.00440	-.00060	-.00303	.14090	-.01140
1.203	3.050	-.00560	-.01240	.00640	.23782	.35877	-.16140	.07600	.03060	.02760	-.00580
1.202	6.080	-.01410	-.01100	-.00450	.23677	.35621	-.31810	.13360	.05750	-.04550	-.00080
	GRADIENT	-.00033	.00038	.00036	-.00047	-.00166	-.05351	.02621	-.00946	-.03038	.00162

CALSPAN T14-053   02 T1 S1   1A36   (RUF033)   (26 SEP 73)

REFERENCE DATA

		PARAMETRIC DATA		
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000	MPSRA = 30.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 36.200
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.330	RUDDER = .000
SCALE = .0190			

RUN NO. 33/ 0   RN/L = 2.12   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.197	-6.080	-.00110	-.02240	-.01550	.24188	.35251	.30960	-.14000	.05230	.27800	-.02140
1.200	-3.040	.00990	-.02500	-.01870	.25102	.35703	.16260	-.08180	.02640	.22480	-.01510
1.198	.000	.02180	-.02780	-.02190	.25852	.36193	-.00620	.00190	.00250	.14950	-.01080
1.195	3.050	.00010	-.01740	-.01150	.24389	.34050	-.16450	.07690	-.03050	.03070	-.00450
1.205	6.080	-.00590	-.01760	-.01170	.24039	.33922	-.31440	.13510	-.05620	-.02870	-.00020
	GRADIENT	.00161	.00125	.00118	-.00117	-.00272	-.05371	.02606	-.00934	-.03188	.00174

CALSPAN T14-053   02 T1 S1   1A36   (RUF034)   (26 SEP 73)

REFERENCE DATA

		PARAMETRIC DATA		
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	BETA = .000	MPSRA = 30.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 36.200
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.330	RUDDER = .000
SCALE = .0190			

RUN NO. 34/ 0   RN/L = 2.02   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.198	-8.180	-.53310	.19800	.20370	.24259	.35828	-.00380	-.00180	-.00170	-.20680	-.00190
1.197	-4.140	-.24310	.08500	.09050	.25326	.35672	-.01170	.00330	-.00300	-.02850	-.00500
1.194	-.050	.01610	-.02390	-.01800	.25710	.35869	-.02110	.01360	-.00440	.14320	-.01090
758	3.980	.26150	-.11760	-.11160	.25588	.34304	-.01470	.01170	-.00420	.27270	-.01130
1.202	6.040	.38190	-.16400	-.15820	.25282	.33536	-.00700	.00570	-.00390	.34570	-.01360
	GRADIENT	.06215	-.02495	-.02489	.00032	-.00168	-.00037	.00104	-.00015	.03711	-.00078

CALSPAN T14-053   02 T1 S1   1A36   (RUF035)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		BETA = .000	MPSRA = 30.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		POWER = .000	RUDDER = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES			
SCALE = .0190				

RUN NO. 35/ 0   RN/L = 2.76   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CNW
.900	-8.110	-.49160	.16150	.16600	.10660	.22249	-.02460	.01720	-.00410	-.14390	.01220
.899	-4.060	-.23170	.05890	.06310	.11430	.22373	-.03410	.02300	-.00610	-.00430	.00280
.901	.010	.02040	-.04530	-.04150	.11482	.22103	-.03090	.02120	-.00520	.13980	-.00900
.899	4.030	.24480	-.12270	-.11890	.11200	.20569	-.03030	.02120	-.00670	.25590	-.03070
.902	6.000	.33510	-.14650	-.14300	.11077	.20400	-.02540	.01770	-.00690	.29790	-.04070
GRADIENT		.05891	-.02245	-.02250	-.00028	-.00223	.00047	-.00022	-.00007	.03110	-.00414

CALSPAN T14-053   02 T1 S1   1A36   (RUF036)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		BETA = .000	MPSRA = 30.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		POWER = 1.000	OPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		SRMPR = 2.020	RUDDER = .000
SCALE = .0190				

RUN NO. 36/ 0   RN/L = 2.70   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CNW
.899	-8.120	-.48980	.16350	.16990	.11586	.25089	-.03200	.02000	-.00490	-.15080	.01240
.898	-4.040	-.22620	.05840	.06430	.12797	.24206	-.03330	.02240	-.00570	-.00370	.00280
.902	.030	.01850	-.04130	-.03560	.13151	.23651	-.03110	.02080	-.00490	.14510	-.00770
.908	4.000	.24840	-.12600	-.12060	.13021	.22691	-.02830	.01900	-.00620	.25730	-.03110
.901	6.020	.34360	-.15110	-.14560	.12438	.22584	-.02330	.01630	-.00610	.29420	-.04100
GRADIENT		.05903	-.02294	-.02300	.00028	-.00188	.00062	-.00042	-.00006	.03248	-.00421

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CALSPAN T14-053   02 T1 S1   1A36

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES
SCALE = .0190	

PARAMETRIC DATA

ALPHA = .000	MPSRA = 30.000
POWER = 1.000	OPR = 28.310
SRMPR = 2.020	RUDDER = .000

(RUF037)   (26 SEP 73)

RUN NO. 37/ 0   RN/L = 2.72   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.897	-6.080	.00000	-.03440	-.02900	.12441	.22258	.29920	-.13390	.04650	.22310	-.04230
.900	-3.050	.01270	-.04050	-.03530	.12932	.22943	.14540	-.06900	.02380	.20050	-.02670
.901	.000	.01520	-.03960	-.03400	.13224	.23850	-.02800	.01960	-.00450	.14510	-.00920
.897	3.050	.01590	-.04280	-.03670	.12437	.22785	.18580	.09770	-.03080	.11380	.00470
.899	6.090	.00390	-.03450	-.02810	.12705	.22853	.34160	.16280	-.05490	.05320	.02040
GRADIENT		.00052	-.00038	-.00023	-.00081	-.00026	-.05430	.02733	-.00895	-.01421	.00515

CALSPAN T14-053   02 T1 S1   1A36

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES
SCALE = .0190	

PARAMETRIC DATA

| ALPHA = .000 | MPSRA = 30.000 |
| POWER = .000 | RUDDER = .000 |

(RUF038)   (26 SEP 73)

RUN NO. 38/ 0   RN/L = 2.75   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.904	-6.080	.00860	-.04060	-.03690	.11432	.20466	.29900	-.13430	.04850	.22770	-.04020
.900	-3.050	.01960	-.04470	-.04150	.12095	.20439	.14510	-.06750	.02430	.20440	-.02530
.901	.000	.02110	-.04410	-.04030	.13222	.22470	-.02750	.01920	-.00420	.14460	-.00850
.901	3.050	.01440	-.04340	-.03910	.12740	.21479	.18080	.09410	-.02970	.10940	.00560
.901	6.090	-.00070	-.03250	-.02730	.12536	.21297	.33580	.16020	-.05440	.05710	.01960
GRADIENT		-.00085	.00021	.00039	.00106	.00170	-.05343	.02649	-.00885	-.01557	.00507

CALSPAN T14-053   02 T1 S1   1A36   (RUF040)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA = .000   MPSRA = 60.000
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   POWER = .000   RUDDER = .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

RUN NO. 40/ 0   RN/L = 2.13   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.203	-8.090	-.58200	.22030	.22600	.23634	.37003	.00130	-.00380	-.00150	-.21690	-.00260
1.204	-4.020	-.26990	.09910	.10470	.25467	.37846	-.00350	-.00090	-.00300	-.03130	-.00600
1.205	-.020	.00930	-.01800	-.01240	.25887	.37919	-.00810	-.00250	-.00360	.13820	-.01120
1.203	4.010	.26750	-.11660	-.11080	.25433	.36517	-.01690	-.01370	-.00500	.27400	-.01250
1.204	6.020	.39550	-.16730	-.16110	.25224	.36333	-.01010	-.00930	-.00500	.34550	-.01520
GRADIENT		.36692	-.02686	-.02683	-.00004	-.00166	-.00167	.00182	-.00025	.03801	-.00081

CALSPAN T14-053   02 T1 S1   1A36   (RUF041)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   ALPHA = .000   MPSRA = 60.000
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   POWER = .000   RUDDER = .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

RUN NO. 41/ 0   RN/L = 2.12   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.201	-6.080	-.01070	-.01480	-.00900	.28173	.37644	.31320	-.14270	.05380	.26680	-.02110
1.201	-3.050	-.00120	-.01610	-.01020	.27536	.37593	.16390	-.08240	.02710	.21220	-.01550
1.202	3.050	-.00810	-.01190	-.00590	.28623	.35930	-.16470	.07820	.03110	.03110	-.00560
1.202	6.080	-.01150	-.01330	-.00690	.26060	.36239	-.31940	.13070	.05770	-.03920	-.00080
GRADIENT		-.00113	.00069	.00070	.00178	-.00109	-.05??7	.02633	-.00954	-.02969	.00162

CALSPAN T14-053   02 TI SI   1A36

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES
SCALE = .0190	

(RUF042)   (26 SEP 73)

PARAMETRIC DATA

BETA = .000	MPSRA = 60.000
POWER = 1.000	OPR = 36.200
SRMPR = 2.330	RUDDER = .000

RUN NO. 42/ 0   RN/L = 2.04   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.201	-8.090	-.52400	.19730	.20270	.27508	.36291	-.00270	-.00320	-.00170	-.19950	-.00160
1.196	-4.070	-.24090	.08370	.08920	.26357	.36098	-.00900	.00160	-.00290	-.02300	-.00510
1.194	-.050	.01340	-.02400	-.01850	.26973	.35950	-.01090	.00410	-.00310	.14090	-.01040
1.199	4.030	.24610	-.11010	-.10450	.26318	.34340	-.01690	.01300	-.00450	.25370	-.01140
1.201	5.990	.36240	-.15530	-.14980	.26206	.33521	-.00880	.00640	-.00410	.33040	-.01340
GRADIENT		.06012	-.02392	-.02391	-.00005	-.00217	-.00098	.00141	-.00020	.03414	-.00078

CALSPAN T14-053   02 TI SI   1A36

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES
SCALE = .0190	

(RUF043)   (26 SEP 73)

PARAMETRIC DATA

ALPHA = .000	MPSRA = 60.000
POWER = 1.000	OPR = 36.200
SRMPR = 2.330	RUDDER = .000

RUN NO. 43/ 0   RN/L = 2.05   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.194	-6.070	.00070	-.02240	-.01510	.24355	.35042	.30510	-.13820	.05250	.27280	-.02160
1.194	-3.050	.00850	-.02290	-.01680	.25447	.35750	.16080	-.08060	.02660	.22070	-.01540
1.194	.000	.01650	-.02440	-.01890	.26496	.35907	-.00660	.00180	-.00260	.15020	-.01040
1.193	3.050	.00160	-.01130	-.01380	.24921	.34083	-.16710	.07780	-.03060	.02420	-.00440
1.196	6.080	-.00550	.01610	-.01250	.24589	.33661	-.31290	.13380	-.05580	-.03800	-.00100
GRADIENT		-.00113	.00059	.00049	-.00086	-.00273	-.05375	.02597	-.09938	-.03221	.00180

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CALSPAN T14-053   02 T1 S1   IA36   (RUF044)   (26 SEP 73)

REFERENCE DATA

					PARAMETRIC DATA	
SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES	BETA = .000 MPSRA = 60.000
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES	POWER = 1.000 OPR = 28.310
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES	SRMPR = 2.020 RUDDER = .000
SCALE	=	.0190				

RUN NO. 44/ 0   RN/L = 2.68   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.900	-8.080	-.47640	.15770	.16420	.11216	.24671	-.02800	.01800	-.00440	-.14980	.01240
.895	-4.050	-.22400	.05870	.06480	.11809	.23649	-.03270	.02170	-.00550	-.00600	.00160
.898	-.040	.01960	-.04380	-.03830	.12531	.23276	-.03200	.02160	-.00510	.13810	-.00780
.896	3.970	.24350	-.12460	-.11920	.12371	.22237	.02930	.01970	-.00630	.24710	-.03160
.907	6.010	.34170	-.15280	-.14770	.13446	.22532	-.02270	.01510	-.00640	.28160	-.04090
	GRADIENT	.05829	-.02286	-.02294	.00070	-.00176	.00042	-.00025	-.00010	.03156	-.00414

CALSPAN T14-053   02 T1 S1   IA36   (RUF045)   (26 SEP 73)

REFERENCE DATA

					PARAMETRIC DATA	
SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES	ALPHA = .000 MPSRA = 60.000
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES	POWER = 1.000 OPR = 28.310
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES	SRMPR = 2.020 RUDDER = .000
SCALE	=	.0190				

RUN NO. 45/ 0   RN/L = 2.73   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.897	-6.080	-.00390	-.03320	-.02780	.12110	.22688	.29770	-.13210	.04620	.20580	-.04160
.899	-3.050	.01210	-.04100	-.03580	.12745	.23436	.14620	-.06890	.02390	.19720	-.02670
.898	.000	.01740	-.04440	-.03890	.12981	.23749	-.02783	.01910	-.00430	.14260	-.00840
.898	3.050	.01340	-.04350	-.03740	.12725	.22873	-.18700	.09760	-.03050	.10580	.00640
.900	5.090	-.00750	-.02320	-.02270	.12635	.23009	-.34060	.15170	-.05430	.04420	.02170
	GRADIENT	.00021	-.00041	-.00026	-.00003	-.00092	-.05462	.02730	-.00892	-.01482	.00543

DATE 05 NOV '75   TABULATED DATA FOR CAL T14-053 (1A36)

CALSPAN T14-053   02 T1 S1   1A36   (RUF045)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

| ALPHA | = | .000 | MPSRA | = | 60.000 |
| POWER | = | .000 | RUDDER | = | .000 |

RUN NO. 46/ 0   RN/L = 2.77   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.898	-6.080	.00110	-.03870	-.03420	.10510	.20249	.29890	-.13400	.04860	.21600	-.04000
.902	-3.050	.0110	-.04170	-.04170	.11995	.21311	.14290	-.06660	.02390	.20040	-.02460
.899	.000	.01700	-.04400	-.03970	.11635	.22002	-.02690	.01870	-.00420	.14700	.00830
.901	3.060	.01320	-.04370	-.03950	.12245	.21867	-.18440	.09520	-.03010	.10840	.00650
.900	6.090	-.00590	-.03100	-.02610	.11455	.21607	-.33960	.15150	-.05470	.05520	.02050
	GRADIENT	.00034	-.00033	-.00026	.00041	.00091	-.05357	.02648	-.00884	-.01505	.00511

CALSPAN T14-053   02 T1 S1   1A36   (RUF047)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

| BETA | = | .000 | MPSRA | = | 60.000 |
| POWER | = | .000 | RUDDER | = | .000 |

RUN NO. 47/ 0   RN/L = 2.75   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.902	-8.070	-.47350	.15470	.15890	.11613	.22474	-.02960	.01940	-.00480	-.13670	.01300
.900	-4.090	-.22840	.05730	.06150	.11660	.22215	-.03380	.02300	-.00500	-.00130	.00390
.899	.050	.02000	-.04510	-.04110	.11799	.21703	-.03400	.02270	-.00550	.14210	.00600
.897	4.010	.23590	-.11930	-.11540	.11140	.20676	-.03380	.02240	-.00700	.24950	-.03000
.900	5.980	.32450	-.14320	-.13940	.11536	.20759	-.02760	.01850	-.00730	.28400	-.04000
	GRADIENT	.05734	-.02182	-.02186	-.00063	-.00189	-.00000	-.00000	-.00012	.03099	-.00720

CALSPAN T14-053   02 T1 S1   1A36

(RUF048)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF = 1328.0002 INCHES	YMRP =	.0000 INCHES
BREF = 1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE = .0190		

PARAMETRIC DATA

BETA =	.000	MPSRA = 90.000
POWER =	.000	RUDDER = .000

RUN NO. 48/ 0   RN/L = 2.13   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CM
1.200	-8.10	-.53290	.20240	.20810	.29309	.39009	-.00100	-.00360	-.00140	-.19120	-.00290
1.200	-4.060	-.24920	.09120	.09700	.30708	.39507	-.00740	.00020	-.00310	-.01630	-.00510
1.201	-.020	.00820	-.01710	-.01120	.30390	.39273	-.00980	.00260	-.00320	.13710	-.00510
1.202	4.010	.24640	-.10830	-.10220	.30095	.37804	.01670	.01310	-.00470	.25750	-.00510
1.203	6.010	.36290	-.15400	-.14780	.29764	.37202	.01140	.00980	-.00470	.32270	-.01450
GRADIENT		.36141	-.02472	-.02468	-.00076	-.00211	-.00115	.00160	-.00020	.03393	-.00059

CALSPAN T14-053   02 T1 S1   1A36

(RUF049)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF = 1328.0002 INCHES	YMRP =	.0000 INCHES
BREF = 1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE = .0190		

PARAMETRIC DATA

ALPHA =	.000	MPSRA = 90.000
POWER =	.000	RUDDER = .000

RUN NO. 49/ 0   RN/L = 2.12   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CM
1.201	-5.080	-.01040	-.01170	-.00580	.28306	.37821	.31390	-.14510	.05200	.26120	-.02.40
1.202	-3.050	-.00370	-.01200	-.00610	.28721	.38047	.16400	-.08260	.02670	.20380	.01560
1.205	.000	.00760	.01600	.01000	.28689	.38674	-.00180	.00040	.00250	.13830	.01.80
1.199	3.050	-.00940	.00680	.00250	.28196	.37049	-.16110	.07750	.03010	.03290	.00570
1.201	6.080	-.01780	.00750	.00090	.26416	.36428	-.31330	.13840	.05620	-.04180	.00.50
GRADIENT		-.00077	.00052	.00059	-.00086	-.00164	-.05330	.02625	-.00931	-.00802	.00.62

CALSPAN T14-053   02 T1 S1   1A36   (RUF050)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000   MPSRA = 90.000
POWER = 1.000   OPR   = 36.200
SRMPR = 2.330   RUDDER = .000

RUN NO. 50/ 0   RN/L = 2.04   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CA	CAF	CY	CYN	CBL	CNM	CHM
1.193	-8.100	-.51300	.19030	.19530	.36025	.25399	-.00270	-.00400	-.00150	-.19560	-.00170
1.198	-4.070	-.23800	.08720	.03250	.36273	.27509	-.00390	-.00200	-.00250	-.01450	-.00510
1.201	-.040	.01360	-.01900	-.01390	.35539	.28525	-.00930	-.00170	-.00270	.17980	-.00990
1.192	3.970	.26010	-.11850	-.11260	.34291	.25749	-.00870	-.00440	-.00290	.25860	-.00190
1.190	6.020	.37060	-.16000	-.15430	.33343	.25693	-.01110	.00960	-.00410	.32910	-.00320
GRADIENT		.06195	-.02659	-.02551	-.00246	-.00219	-.00050	.00080	-.00005	.03397	-.00095

CALSPAN T14-053   02 T1 S1   1A36   (RUF051)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

ALPHA = .000   MPSRA = 90.000
POWER = 1.000   OPR   = 36.200
SRMPR = 2.330   RUDDER = .000

RUN NO. 51/ 0   RN/L = 2.00   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CA	CAF	CY	CYN	CBL	CNM	CHM
1.190	-6.070	-.00480	-.01890	-.01300	.34880	.24557	.30940	-.14080	.05290	.27830	-.02170
1.182	-3.040	.00910	-.02510	-.01910	.35205	.24616	.16190	-.08140	.02680	.21970	-.01560
1.190	.000	.01760	-.02560	-.02010	.35966	.26740	-.00570	.00570	-.00290	.14640	-.01050
1.188	3.050	.00150	-.02040	-.01460	.34135	.24491	-.16550	.07690	-.02900	.02520	-.01720
1.195	6.080	-.00660	-.01720	-.01170	.33858	.24253	-.31570	.13490	-.05560	-.03370	-.01720
GRADIENT		-.00125	.00074	.00074	-.00175	-.00031	-.05376	.02699	-.00929	-.03145	-.00019

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 1

CALSPAN T14-053   02 T1 S1   1A36   (RUFC52)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES
SCALE = .0190	

PARAMETRIC DATA

| BETA = .000 | MPSRA = 90.000 |
| POWER = .000 | RUDDER = .000 |

RUN NO. 52/ 0   RN/L = 2.74   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.916	-8.090	-.47580	.15370	.15890	.10302	.22667	-.02370	.01610	-.00390	-.13430	.01180
.901	-4.040	-.22210	.05350	.05800	.11501	.22790	-.02840	.01960	-.00520	.00610	-.00380
.901	.000	.02130	-.04690	-.04260	.11114	.22253	-.02850	.01900	-.00450	.14380	-.00940
.901	4.000	.23690	-.12070	-.11670	.11225	.20847	-.02760	.01830	-.00600	.25390	-.03040
.902	5.990	.32860	-.14550	-.14150	.10361	.20459	-.02370	.01570	-.00680	.28600	-.04070
.915	GRADIENT	.05709	-.02167	-.02173	-.00034	-.00241	.00010	-.00016	-.00010	.03083	-.00425

CALSPAN T14-053   02 T1 S1   1A36   (RUF053)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES
SCALE = .0190	

PARAMETRIC DATA

| ALPHA = .000 | MPSRA = 90.000 |
| POWER = .000 | RUDDER = .000 |

RUN NO. 53/ 0   RN/L = 2.72   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.903	-6.080	.00090	-.03770	-.03350	.11027	.20577	.29820	-.13420	.04810	.23000	-.03950
.903	-3.050	.01330	-.04280	-.03920	.11817	.20589	.14610	-.06880	.02420	.20880	-.02480
.904	.000	.01800	-.04540	-.03970	.12834	.22212	-.02160	.01600	.00360	.15660	-.00720
.502	3.050	.01490	-.04490	-.04060	.12196	.21447	-.17780	.09140	-.02890	.11810	-.00570
.901	6.090	-.00440	-.03270	-.02790	.11077	.21419	-.33310	.15750	-.05350	.06420	.02050
	GRADIENT	.00026	-.00034	-.00023	.00062	.00141	-.05310	.00025	-.00870	-.01487	.00500

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CALSPAN T14-053   02 T1 S1   1A36

REFERENCE DATA   (RUF054)   (26 SEP 73)

		PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	BETA = .000	MPSRA = 90.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.020	RUDDER = .000
SCALE = .0190			

RUN NO. 54/ 0   RN/L = 2.67   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.899	-8.100	-.47350	.15690	.16320	.11513	.24567	-.03010	.01820	-.00450	-.14550	.01120
.903	-4.020	-.21880	.05460	.06000	.13583	.24160	-.02650	.01790	-.00470	-.00130	-.00370
.904	.020	.03600	-.05880	-.05350	.12019	.23957	-.02570	.01660	-.00490	.13130	-.00780
.900	4.060	.25160	-.13090	-.12590	.12886	.22161	-.02340	.01500	-.00560	.20300	-.03050
1.030	6.060	.35320	-.16150	-.15630	.12371	.22462	-.01660	.01090	-.00560	-.8000	-.04130
GRADIENT		.05822	-.02296	-.02301	-.00086	-.00247	.00038	-.00035	-.00011	.03024	-.00423

CALSPAN T14-053   02 T1 S1   1A36

REFERENCE DATA   (RUF055)   (26 SEP 73)

		PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000	MPSRA = 90.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.020	RUDDER = .000
SCALE = .0190			

RUN NO. 55/ 0   RN/L = 2.59   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.898	-6.080	.00190	-.03730	-.03200	.12568	.22108	.30520	-.13820	.04690	.21230	-.04200
1.006	-3.050	.01540	-.04350	-.03840	.12616	.22682	.14950	-.07260	.02440	.19810	-.02750
.899	.000	.02130	-.04630	-.04120	.13422	.23805	-.02150	.01500	-.00330	.14010	-.00860
.898	3.050	.01350	-.04330	-.03800	.13341	.23114	-.18140	.09250	-.02910	.10480	.00590
.899	6.080	-.00640	-.03020	-.02430	.12654	.22530	-.33120	.15540	-.05220	.05230	.02020
GRADIENT		-.00031	.00003	.00007	.00119	.00071	-.05425	.02707	-.00877	-.01530	.00548

CALSPAN T14-053   02 T1 S1   1A36   (RUF059)   (26 SEP 73)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	BETA = .000	MPSRA = 120.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 36.200
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.330	RUDDER = .000
SCALE = .0190			

RUN NO. 59/ 0   RN/L = .18   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CNW
1.196	-8.110	-.51390	.19150	.19710	.26655	.36671	-.01030	.00000	-.00270	-.20000	-.00130
1.200	-4.060	-.24440	.09160	.09650	.29614	.36925	-.00290	-.00130	-.00270	-.01900	-.00490
1.198	.020	.02340	-.02830	-.02330	.28433	.36549	-.00890	.00410	-.00270	.13420	-.00990
1.205	4.090	.25350	-.11450	-.10940	.28819	.36084	-.01160	.01100	-.00390	.25510	-.01050
1.203	6.030	.36470	-.15870	-.15310	.27884	.34846	-.00660	.03670	-.00390	.32320	-.01330
GRADIENT		.06109	-.02529	-.02527	-.00098	-.00103	-.00107	.00151	-.00015	.03363	-.00059

CALSPAN T14-053   02 T1 S1   1A36   (RUFC60)   (26 SEP 73)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000	MPSRA = 120.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 36.200
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.330	RUDDER = .000
SCALE = .0190			

RUN NO. 60/ 0   RN/L = 2.08   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CNW
1.195	-6.080	.00490	-.02320	-.01730	.25471	.35637	.31190	-.14090	.05230	.27090	-.02200
1.202	-3.050	-.00060	-.01730	-.01160	.25959	.36063	.16390	-.08190	.02690	.21180	-.01480
1.199	.000	.02080	-.02440	-.01950	.26986	.35936	.00590	.00240	-.00260	.14180	-.01040
1.198	3.050	.00200	-.01710	-.01130	.25335	.34453	-.16500	.07900	-.03020	.03090	-.00360
1.194	6.080	-.00650	-.01650	-.01070	.24626	.34074	-.31190	.13580	-.05590	-.03930	.00130
GRADIENT		.00043	.00003	.00005	-.00102	-.00264	-.05392	.02638	-.00936	-.02966	.00184

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CALSPAN T14-053   02 T1 S1   1A36   (RUF061) (26 SEP 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

PARAMETRIC DATA

ALPHA =	.000	MPSRA =	120.000
POWER =	.000	RUDDER =	.000

RUN NO. 61/ 0   RN/L = 2.05   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.203	-5.080	-.00710	-.01340	-.00730	.25480	.37390	.31550	-.14440	.05350	.27340	-.02140
1.204	-3.050	-.00130	-.01350	-.00740	.25583	.37640	.16600	-.08350	.02740	.21890	-.01510
1.201	.000	.01290	-.01830	-.01240	.26395	.38453	-.00220	.00020	-.00250	.14790	-.01110
1.203	3.050	-.00410	-.01130	-.00540	.25750	.36762	.16660	.07990	-.03100	.02870	-.00480
1.205	6.080	-.00930	-.01180	-.00570	.24989	.36354	-.32000	.14140	-.05740	-.04230	-.00050
GRADIENT		-.00046	.00036	.00033	.00027	-.00144	-.05452	.02679	-.00957	-.03118	.00169

CALSPAN T14-053   02 T1 S1   1A36   (RUF062) (26 SEP 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

PARAMETRIC DATA

BETA =	.000	MPSRA =	120.000
POWER =	.000	RUDDER =	.000

RUN NO. 62/ 0   RN/L = 2.10   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.203	-8.070	-.52880	.20090	.20690	.25498	.38320	-.00030	-.00350	-.00140	-.19490	-.00210
1.204	-4.040	-.24560	.09090	.09650	.26219	.38579	-.00480	-.00030	-.00290	-.01810	-.00570
1.205	-.020	.01240	-.01800	-.01240	.26393	.38061	-.00580	.00120	-.00300	.14010	-.01630
1.205	4.010	.25270	-.09950	-.10370	.25652	.37283	-.00640	.00410	-.00350	.26650	-.01550
1.201	6.030	.36360	-.15300	-.14690	.25137	.36128	-.00750	.00880	-.00450	.31410	-.01480
1.203	GRADIENT	.06190	-.02491	-.02487	-.00070	-.00161	-.00020	.00065	-.00007	.03535	-.00122

CALSPAN T14-053   02 T1 S1   1A36   (RUF063)   (26 SEP 73)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	BETA = .000	MPSRA = 120.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.020	RUDDER = .000
SCALE = .0190			

RUN NO. 63/ 0   RN/L = 2.65   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.900	-8.120	-.47240	.15620	.16220	.11923	.24803	-.02980	.01990	-.00440	-.14330	.01260
.898	-4.010	-.22350	.06050	.06620	.12083	.24265	-.03180	.02190	-.00530	.00000	.00240
.900	.040	.02250	-.04650	-.04120	.12794	.23203	-.03040	.02110	-.00500	.13910	-.00900
.900	4.090	.24540	-.12600	-.12080	.11844	.21896	-.02570	.01760	-.00570	.25510	-.03070
.899	6.040	.33870	-.15200	-.14680	.11781	.21625	-.01890	.01300	-.00650	.28550	-.04020
.896	GRADIENT	.35789	-.02302	-.02309	-.00030	-.00292	.00075	-.00053	-.00005	.03149	-.00409

CALSPAN T14-053   02 T1 S1   1A36   (RUF064)   (26 SEP 73)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000	MPSRA = 120.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.020	RUDDER = .000
SCALE = .0190			

RUN NO. 64/ 0   RN/L = 2.71   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.903	-6.080	.00350	-.03840	-.03480	.11044	.19700	.29400	-.13130	.04750	.22290	-.03880
.904	-3.050	.01600	-.04130	-.03660	.13388	.22943	.14480	-.06900	.02380	.20100	-.02500
.898	.000	.02300	-.04560	-.04050	.13107	.23297	-.02790	.01870	-.00420	.13320	-.00930
.899	3.050	.01300	-.04080	-.03520	.13040	.23081	-.18180	.09510	-.03000	.10530	.00630
.901	6.090	-.00280	-.03080	-.02470	.12727	.23073	-.33350	.15810	-.05280	.04820	.02040
.902	GRADIENT	-.00049	.00008	.00023	-.00057	.00023	-.05354	.02690	-.00882	-.01569	.00513

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CALSPAN T14-053   02 T1 S1   IA36   (RUF065)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   ALPHA = .000   MPSRA = 120.000
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   POWER = .000   RUDDER = .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

RUN NO.   65/ 0   RN/L = 2.74   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.904	-6.080	.00540	-.03880	-.03550	.11065	.19704	.23510	-.13180	.04760	.22290	-.03880
.902	-3.050	.01160	-.04060	-.03740	.11309	.19951	.14470	-.06720	.02410	.20220	-.02470
.904	.000	.01980	-.04410	-.04060	.11945	.21371	-.02520	.01820	-.00420	.14870	-.00790
.901	3.050	.01480	-.04380	-.03990	.12222	.21083	-.17080	.09250	-.02960	.10600	-.00450
.903	6.090	-.00240	-.03230	-.02800	.11878	.21051	-.33340	.15780	-.05410	.05500	-.01960
GRADIENT		.00052	-.00052	-.00041	.00143	.00186	-.05320	.02618	-.00880	-.01577	.00479

CALSPAN T14-053   02 T1 S1   IA36   (RUF066)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA = .000   MPSRA = 120.000
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   POWER = .000   RUDDER = .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

RUN NO.   66/ 0   RN/L = .24   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.903	-8.050	-.46760	.15160	.15550	.11573	.21952	-.02570	.01730	-.00400	-.12480	.01270
.903	-4.040	-.21770	.05250	.05630	.12006	.21844	-.02950	.02040	-.00530	.01400	.00380
.901	.020	.01820	-.04250	-.03390	.12065	.21026	-.03000	.02060	-.00500	.14040	-.00900
.901	3.990	.23400	-.11880	-.11550	.11552	.19901	-.02790	.01950	-.00580	.25500	-.03030
.900	6.040	.32730	-.14450	-.14110	.10900	.19739	-.02300	.01640	-.00700	.28350	-.03940
GRADIENT		.05626	-.02134	-.02140	-.00056	-.00242	.00020	-.00011	-.00006	.03002	-.00424

CALSPAN T14-053   02 TI SI   1A36   (RUF071)   (26 SEP 73)

REFERENCE DATA | PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	BETA = .000	MPSFA = 150.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = .000	RUDDER = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		
SCALE = .0190			

RUN NO. 71/ 0   RN/L = 2.76   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.904	-8.130	-.47310	.15600	.16010	.12407	.22430	-.02520	.01810	-.00430	-.12680	.01210
.905	-4.050	-.22220	.05510	.05900	.12036	.22065	-.02840	.02070	-.00530	.01220	.00310
.903	.020	.01230	-.03720	-.03360	.12312	.21828	-.02970	.02090	-.00550	.14050	-.00940
.903	4.020	.23000	-.11560	-.11220	.11697	.20388	-.02740	.01980	-.00630	.25510	.02990
.903	6.010	.32470	-.14330	-.13980	.10940	.20249	-.02370	.01720	-.00720	.29140	-.03990
.901	GRADIENT	.35604	-.07116	-.02122	-.00042	-.00207	.00012	-.00011	-.00012	.03009	-.00409

CALSPAN T14-053   02 TI SI   1A36   (RUF072)   (26 SEP 73)

REFERENCE DATA | PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000	MPSRA = 150.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = .000	RUDDER = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		
SCALE = .0190			

RUN NO. 72/ 0   RN/L = 2.74   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.904	-6.080	.00470	-.03840	-.03490	.11485	.20116	.29590	-.13290	.04740	.22880	-.03860
.901	-3.050	.00960	-.03860	-.03540	.11962	.20187	.14410	-.06730	.02320	.20140	-.02570
.904	.000	.00970	-.03610	-.03240	.11897	.21604	-.02760	.01990	-.00490	.15080	-.00960
.901	3.050	.00730	-.03890	-.03470	.11927	.20892	-.18160	.09570	.03000	.11020	.00540
.902	6.090	-.00940	-.02940	-.02480	.10705	.20635	-.31470	.13780	-.04660	.05160	.02030
.902	GRADIENT	-.00038	-.00005	.00011	-.00006	.00117	-.05339	.02672	-.00872	-.01495	.00510

CALSPAN T14-053　　02 T1 S1　　1A36　　(RUF073)　(26 SEP 73)

REFERENCE DATA

					PARAMETRIC DATA
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES			BETA = .000	MPSRA = 150.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES			POWER = 1.000	OPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES			SRMPR = 2.020	RUDDER = .000
SCALE = .0190					

RUN NO. 73/ 0　　RN/L = 2.67　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CAF	CLM	CA	CY	CYN	CBL	CNW	CHW
.902	-8.010	-.47020	.15640	.11767	.16250	.24188	-.03020	.02000	-.00480	-.14230	-.01160
.902	-4.040	-.22370	.05830	.12925	.06390	.23958	-.03200	.02210	-.00560	-.00190	-.00230
.900	.000	.02160	-.04500	.13129	-.03980	.23522	-.03000	.02060	-.00520	.13210	-.01600
.900	4.040	.24190	-.12350	.13344	-.11870	.22380	-.02650	.01850	-.00640	.24800	-.03040
.905	6.020	.34020	-.15300	.12571	-.14790	.22066	-.01980	.01380	-.00690	.28410	-.04040
.902	GRADIENT	.05762	-.02250	.00052	-.02260	-.00195	.00068	-.00045	-.00010	.03093	-.00405

CALSPAN T14-053　　02 T1 S1　　1A36　　(RUF074)　(26 SEP 73)

REFERENCE DATA

					PARAMETRIC DATA
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES			ALPHA = .000	MPSRA = 150.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES			POWER = 1.000	OPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES			SRMPR = 2.020	RUDDER = .000
SCALE = .0190					

RUN NO. 74/ 0　　RN/L = 2.69　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CAF	CLM	CA	CY	CYN	CBL	CNW	CHW
.902	-6.080	-.00120	-.03230	.13188	-.02740	.22248	.28930	-.12950	.04470	.21410	-.04090
.900	-3.050	.00940	-.03690	.13193	-.03200	.22357	.14270	-.06740	.02290	.18570	-.02690
.899	.000	.01580	-.04000	.13271	-.03480	.23352	-.02700	.01920	.00470	.13330	.00970
.899	3.050	.00920	-.03840	.13438	-.03270	.22535	-.18290	.09720	-.03040	.10440	.03550
.901	6.090	-.01110	-.02750	.12641	-.02140	.22551	-.32810	.15340	-.05130	.04210	.02130
	GRADIENT	-.00003	-.00025	.00040	-.00011	.00029	-.05338	.02698	-.00874	-.01349	.00558

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CALSPAN T14-053   02 T1 S1   1A36   (RUF075)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA = .000   MPSRA = 150.000
LREF = 1328.0002 INCHES   YMRP =   .0000 INCHES   POWER = .000   RUDDER =   .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE =   0.90

RUN NO. 75/ 0   RN/L = 2.11   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CNW
1.200	-8.110	-.53310	.20270	.20850	.25665	.38098	.00000	-.00370	-.00150	-.19090	-.00260
1.203	-4.020	-.24630	.09990	.09570	.25863	.38355	-.00330	-.00130	-.00280	-.02010	-.00610
1.205	.010	.01040	-.01870	-.01260	.26002	.38219	-.00640	.00140	-.00310	.13610	-.01070
1.207	3.960	.24300	-.10720	-.10120	.25950	.36861	-.01330	.01210	-.00450	.25450	-.01190
1.203	6.010	.36300	-.15400	-.14790	.25947	.36164	-.00790	.00860	-.00450	.32160	-.01470
GRADIENT		.36132	-.02471	-.02468	.00011	-.00187	-.00125	.00168	-.00021	.03443	-.00073

CALSPAN T14-053   02 T1 S1   1A36   (RUF076)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   ALPHA = .000   MPSRA = 150.000
LREF = 1328.0002 INCHES   YMRP =   .0000 INCHES   POWER = .000   RUDDER =   .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE =   .0190

RUN NO. 76/ 0   RN/L = 2.08   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CNW
1.207	-6.080	-.00900	-.01430	-.00810	.25931	.37387	.31430	-.14350	.05390	.28020	-.0211C
1.204	-3.050	-.00230	-.01490	-.00890	.25459	.37505	.16430	-.08270	.02750	.21920	-.01530
1.204	.000	.01250	-.01950	-.01370	.26578	.38261	-.00560	.00100	-.00280	.14980	-.01090
1.206	3.050	-.00750	-.01130	-.00540	.25846	.36572	-.16510	.07830	.03110	.03440	-.00480
1.206	6.080	-.01140	-.01180	-.00580	.25666	.36284	-.31930	.13950	.05750	-.03790	-.0003C
GRADIENT		-.00087	.00059	.00057	.00063	-.00153	-.05400	.02539	.00951	-.03030	.00172

CALSPAN T14-053   02 T1 S1   IA36   (RUF077)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	
SCALE = .0190		

PARAMETRIC DATA

BETA = .000	MPSRA = 150.000
POWER = 1.000	OPR = 36.200
SRMPR = 2.330	RUDDER = .000

RUN NO. 77/ 0   RN/L = 2.02   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.205	-8.040	-.52390	.20190	.20750	.24942	.35179	-.00430	-.00050	-.00190	-.19050	-.00170
1.206	-4.010	-.24060	.08500	.09130	.25718	.36248	-.00930	.00130	-.00200	-.01770	-.00170
1.201	.020	.01660	-.02390	-.01840	.26003	.36095	-.00930	.00300	-.00290	-.14530	-.00560
1.193	4.050	.25200	-.11520	-.10330	.25297	.34532	.01100	.00910	-.00350	.27790	-.01490
1.202	6.050	.35650	-.15280	-.14580	.25319	.33017	-.00570	.00400	-.00350	.73000	-.01380
GRADIENT		.56112	-.02496	-.02489	-.00052	-.00213	-.00021	.00097	.00007	.03653	-.00121

CALSPAN T14-053   02 T1 S1   IA36   (RUF078)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	
SCALE = .0190		

PARAMETRIC DATA

ALPHA = .000	MPSRA = 150.000
POWER = 1.000	OPR = 36.200
SRMPR = 2.330	RUDDER = .000

RUN NO. 78/ 0   RN/L = 2.05   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.175	-6.080	-.00100	-.01970	-.01390	.25564	.35662	.30650	-.13810	.05260	.28140	-.02050
1.193	-3.040	.00570	-.02190	-.01530	.24959	.35671	.16080	-.08060	.02590	.21820	-.01530
1.206	.000	.01460	-.02200	-.01650	.26712	.35142	-.00450	-.00050	.00240	.14870	-.00940
1.197	3.050	-.00030	-.01760	-.01180	.25061	.34662	-.16430	.07600	-.03020	.02450	-.00370
1.197	6.080	-.01110	-.01170	-.00510	.24539	.34274	-.31540	.13530	-.05700	-.03840	-.00150
GRADIENT		-.00099	.00071	.00059	.00016	-.00166	.05338	.02586	-.00936	-.03181	-.00190

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                             CALSPAN T14-053   01 T1 S1   1A36   (RUF081)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SOU   XMRP = 953.0001 INCHES   BETA =   .000   MPSRA = .000
LREF = 1328.0002 INCHES   YMRP =   .0000 INCHES   POWER =   .000   RUDDER = .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE =   .0190

                    RUN NO. B1/ 0   RN/L = 2.16   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.203	-8.110	-.52460	.19890	.20450	.23983	.37547	.00100	-.00570	-.00050	-.17670	-.00250
1.197	-4.070	-.24830	.09030	.03600	.24670	.37695	.00000	-.00480	-.00150	-.00800	-.00640
1.203	.050	-.00880	-.01730	-.01160	.25227	.37485	-.00450	-.00100	-.00200	.14400	-.01110
1.200	4.020	.24320	-.10710	-.10140	.24586	.35735	-.01300	.01020	-.00380	.25680	-.01230
1.197	6.000	.35920	-.15240	-.14660	.24259	.35216	-.00850	-.00850	-.00420	.31950	-.01560
GRADIENT		.06076	-.02441	-.02441	-.00009	-.00241	-.00160	-.00185	-.00028	.03276	-.00073

                             CALSPAN T14-053   01 T1 S1   1A36   (RUF082)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2691.0004 FT.SOU   XMRP = 953.0001 INCHES   ALPHA =   .000   MPSRA = .000
LREF = 1326.0002 INCHES   YMRP =   .0000 INCHES   POWER =   .000   RUDDER = .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE =   .0190

                    RUN NO. B2/ 0   RN/L = 2.13   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.202	-6.080	-.01180	-.01190	-.00600	.23876	.36304	.31650	-.14670	.05480	.27290	-.02240
1.202	-3.050	-.00270	-.01390	-.00800	.24314	.36632	.16510	-.08450	.02820	.21530	-.01610
1.202	.000	.00900	-.01790	-.01220	.25135	.37520	-.00170	-.00230	-.00150	.14970	-.01140
1.200	3.050	-.00760	-.01190	-.00580	.23880	.35829	-.15510	.06390	-.02820	.03220	-.00570
1.201	6.080	-.01270	-.01350	-.00760	.23384	.35495	-.26880	.09000	-.04500	-.03990	-.00090
GRADIENT		-.00080	.00033	.00036	-.00071	-.00132	-.05249	.02533	-.00925	-.03002	-.00170

CALSPAN T14-053　　01 TI SI　　IA36　　　　　　(RUFC83)　　(26 SEP 73)

REFERENCE DATA			PARAMETRIC DATA	
SREF = 2690.0004 FT.SOU	XMRP =	953.0001 INCHES	BETA =	.000	MPSRA =	.000
LREF = 1328.0002 INCHES	YMRP =	.0000 INCHES	POWER =	1.000	CPR =	36.200
BREF = 1328.0002 INCHES	ZMRP =	400.0000 INCHES	SRMPR =	2.330	RUDDER =	.000
SCALE = .0190				

RUN NO.　83/ 0　　RN/L = 2.09　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CYN	CYM
1.199	-8.090	-.50700	.18730	.19290	.24346	.35131	-.00030	-.00420	-.00070	-.18050	-.00010
1.194	-4.050	-.22990	.07750	.08290	.25372	.35008	-.00390	-.00250	-.00160	-.18250	-.00130
1.198	-.050	.01660	.02490	.01940	.25829	.35490	.00300	.00060	-.00160	-.04700	-.00160
1.194	3.990	.24610	.11020	.10760	.25165	.37069	.01180	.00690	-.00340	.20000	.00130
1.197	6.050	.36490	.15790	.15240	.24570	.32953	.00770	.00680	-.00350	.38585	.00350
GRADIENT		.05920	.02334	.02332	.00027	.00167	.00092	.00143	-.00021	.03585	.00001

CALSPAN T14-053　　01 TI SI　　IA36　　　　　　(RUFC84)　　(26 SEP 73)

REFERENCE DATA			PARAMETRIC DATA	
SREF = 2690.0004 FT.SOU	XMRP =	953.0001 INCHES	ALPHA =	.000	MPSRA =	.000
LREF = 1328.0002 INCHES	YMRP =	.0000 INCHES	POWER =	1.000	CPR =	36.200
BREF = 1328.0002 INCHES	ZMRP =	400.0000 INCHES	SRMPR =	2.330	RUDDER =	.000
SCALE = .0190				

RUN NO.　84/ 0　　RN/L = 2.11　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CYN	CYM
1.193	-5.070	-.7.100	-.02320	-.01720	.24010	.33800	.31120	-.14160	.05440	.27660	-.02010
1.198	-5.050	-.00990	-.02530	-.01950	.25249	.34533	.16610	-.08060	.02850	.21720	-.01720
1.196	.000	-.1.800	-.02670	-.02110	.25767	.35536	-.00570	.00000	-.00160	.14650	-.00930
1.198	3.050	-.0.0080	-.01880	-.01310	.24749	.34030	-.15350	.06790	-.02770	.02650	.00330
1.197	5.070	-.00310	-.02190	-.01640	.24375	.33498	-.26000	.08350	-.04400	-.02930	.01020
GRADIENT		-.00175	.00107	.00105	-.00082	-.00092	-.05236	.02503	-.00921	-.03003	-.00001

CALSPAN T14-053   01 T1 S1   OPR = 2.65 X NOM   (RUF085)   (26 SEP 73)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		BETA = .000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		POWER = 1.000	OPR = 95.800
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		SRMPR = 2.330	RUDDER = .000
SCALE = .0190				

RUN NO. 85/ 0   RN/L = 2.06   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.194	-8.070	-.49900	.17370	.17800	.23606	.33241	-.00350	-.00440	-.00100	-.18370	-.00020
1.192	-4.090	-.26950	.07310	.07770	.24622	.33450	-.00240	-.00350	-.00130	-.01580	-.00330
1.193	-.050	.02060	-.03030	-.02560	.25310	.33569	-.00580	-.00060	-.00150	.14140	-.00880
1.196	5.970	.36360	.16070	.15630	.24776	.31554	-.00370	.00180	-.00210	.33510	-.01270
	GRADIENT	.06206	-.02571	-.02560	.00171	.00030	-.00084	.00072	-.00005	.03901	-.00135

CALSPAN T14-053   01 T1 S1   OPR = 1.84 X NOM   (RUF086)   (26 SEP 73)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		BETA = .000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		POWER = 1.000	OPR = 66.700
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		SRMPR = 2.330	RUDDER = .000
SCALE = .0190				

RUN NO. 86/ 0   RN/L = 2.01   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.189	-8.120	-.50770	.18130	.18670	.23568	.34449	-.00210	-.00510	-.00060	-.18700	-.00020
1.191	-4.090	-.23110	.07820	.08340	.25062	.34823	-.00240	-.00310	-.00120	-.00970	-.00410
1.196	-.070	.01700	-.02470	-.01940	.25958	.35030	-.00350	-.00030	-.00150	.14560	-.00920
1.197	3.980	.25470	.11530	.11020	.25451	.33795	-.00060	.00250	-.00110	.28950	-.01360
1.190	6.060	.36370	.15730	.15230	.25265	.32793	-.00320	.00290	-.00260	.34180	-.01310
	GRADIENT	.06020	-.02055	-.02399	.00048	-.00128	.00022	-.00005	.00005	.03707	-.00118

TABULATED DATA FOR CAL T14-053 (1A36)

CALSPAN T14-053   01 T1 S1   SRMPR=1.36 X NOM

(RUF087)   (26 SEP 73)

REFERENCE DATA

						PARAMETRIC DATA		
SREF =	2690.0004	FT.SQU	XMRP =	953.0001	INCHES	BETA =	.000	.000
LREF =	1328.0002	INCHES	YMRP =	.0000	INCHES	POWER =	1.000	36.200
BREF =	1328.0002	INCHES	ZMRP =	400.0000	INCHES	SRMPR =	2.330	.000
SCALE =	.0190							

RUN NO. 87/ 0   PN/L = 2.06   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.98	-7.910	-.48640	.16760	.17630	.24259	.32893	-.00220	-.00410	-.00080	-.17910	-.00130
1.99	-3.690	-.21410	.06650	.07690	.25339	.32830	-.00620	.00000	-.00150	-.00120	-.00310
1.95	-.170	.01260	-.03600	-.07180	.25577	.32563	.00670	.00120	-.00130	.16900	-.00920
1.98	4.230	.25630	-.12090	-.11160	.26102	.30459	.01430	.00100	.00300	.28840	-.00930
1.96	6.130	.36610	-.15600	-.15770	.24822	.29869	.00640	.00300	.00250	.34090	-.01210
	GRADIENT	.05800	.02311	.02312	-.0002	-.00293	.00187	-.00147	-.00026	.03524	-.00076

REFERENCE DATA

CALSPAN T14-053   01 T1 S1   1A36

(RUF081)   (26 SEP 73)

						PARAMETRIC DATA		
SREF =	2690.0004	FT.SQU	XMRP =	953.0001	INCHES	BETA =	.000	.000
LREF =	1328.0002	INCHES	YMRP =	.0000	INCHES	POWER =	.000	.000
BREF =	1328.0002	INCHES	ZMRP =	400.0000	INCHES	RUDDER =		
SCALE =	.0190							

RUN NO. 88/ 0   PN/L = 2.80   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CA	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.898	-8.070	-.40830	.15070	.15510	.10410	.22111	.02070	.01250	-.00290	-.13040	.01130
.901	-4.050	-.12.810	.05120	.05620	.11980	.22354	-.02500	.01630	-.00410	.00030	-.00690
.699	-.030	.01820	-.04510	-.04130	.11641	.21080	-.02500	.01600	-.00350	.12970	-.00780
.699	4.000	.23230	-.11830	-.11500	.11233	.20208	-.02510	-.00590	-.00530	.24160	-.02060
.901	5.970	.32360	-.14540	-.14120	.10651	.19901	-.01980	.01300	-.00550	.27640	-.03090
	GRADIENT	.05595	.02105	.02111	-.00093	-.00267	-.00001	-.00005	-.00010	.02937	-.00127

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 31

CALSPAN T14-053   01 T1 S1   IA36   (RUF089)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190

PARAMETRIC DATA

| ALPHA | = | .000 | MPSRA | = | .000 |
| POWER | = | .000 | RUDDER | = | .000 |

RUN NO. 89/ 0   RN/L = 2.78   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.902	-6.080	.00110	-.03790	-.03400	.11480	.20292	.29730	-.13420	.04800	.22150	-.03840
.899	-3.050	.01320	-.04390	-.04020	.11173	.20267	.15080	-.07220	.02510	.19540	-.02500
.905	.000	.01730	-.04450	-.04070	.11769	.21418	.02220	.01450	-.00280	.14480	-.00720
.901	3.050	.01380	-.04550	-.04150	.11698	.20741	.16300	.07440	-.02360	.09980	.00620
.901	6.090	-.00270	-.03440	-.02980	.11273	.20983	.27030	.09320	.03650	.04560	.02050
GRADIENT		.00010	-.00026	-.00021	.00086	.00078	.05144	.02403	-.00798	-.01557	.00511

CALSPAN T14-053   01 T1 S1   IA36   (RUF090)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190

PARAMETRIC DATA

BETA	=	.000	MPSRA	=	.000
POWER	=	1.000	OPR	=	28.310
SRMPR	=	2.020	RUDDER	=	.000

RUN NO. 90/ 0   RN/L = 2.69   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.898	-3.990	-.21020	.04800	.05320	.13194	.23482	-.02180	.01330	-.00310	-.00470	.00370
.899	.100	.02370	-.04540	-.04040	.13455	.23046	.02100	.01290	-.00250	.13260	-.00800
.897	4.030	.24450	-.12760	-.12250	.12220	.21794	.01820	.01100	-.00400	.24180	-.02290
.901	5.990	.33580	-.15440	-.14940	.12590	.21899	.01250	.00670	-.00490	.27440	-.04000
GRADIENT		.05670	-.02190	-.02191	-.00120	-.00211	.00045	-.00029	-.00011	.03075	-.00418

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CALSPAN T14-053   01 T1 S1   1A36   (RUF0911)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

ALPHA = .000   MPSRA = .000
POWER = 1.000   OPR = 28.310
SRMPR = 2.020   RUDDER = .000

RUN NO. 91/ 0   RN/L = 2.68   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.897	-6.080	.01200	-.04420	-.03890	.12151	.21586	.30910	-.14130	.04850	.21650	-.04080
.899	-3.050	.02240	-.04970	-.04500	.13353	.22420	.15560	-.07650	.02550	.19070	-.02550
.899	.000	.02520	-.04820	-.04330	.13584	.23258	-.01990	.01240	-.00220	.13790	-.00800
.898	3.050	.02260	-.04930	-.04390	.12902	.22283	-.16070	.07290	-.02310	.10610	-.00620
.899	6.080	.00520	-.04000	-.03440	.12342	.21582	-.26670	.09200	-.03540	.04490	.02110
GRADIENT		.00003	.00007	.00018	-.00074	-.00022	.05185	.02449	-.00797	-.01387	.00520

CALSPAN T14-053   01 T1 S1   OPR = 2.5 X NOM   (RUF092?)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000   MPSRA = .000
POWER = 1.000   OPR = 70.500
SRMPR = 2.020   RUDDER = .000

RUN NO. 92/ 0   RN/L = 2.70   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.900	-8.140	-.45230	.14090	-.14730	.12465	.24313	-.02020	.01050	-.00270	-.13470	.01430
.897	-4.020	-.20510	.04180	-.04800	.13410	.23620	-.02520	.01540	-.00410	-.00490	-.00410
.903	.020	.03040	-.05380	-.04810	.14063	.23628	-.02340	.01420	-.00320	-.14900	-.00550
.899	4.020	.24680	-.12960	-.12390	.13961	.22945	-.02130	.01210	-.00460	.25280	.02910
.898	6.010	.33430	-.15730	-.15150	.13361	.22297	-.00810	.00350	-.00400	.20570	-.04020
GRADIENT		.05621	-.02132	-.02138	.00069	-.00133	.00049	-.00041	-.00005	.03004	-.00413

CALSPAN T14-053　　　01 T1 S1　　OPR = 1.72 Y NOM　　　　　(RUF093)　　(26 SEP 73)

REFERENCE DATA

			PARAMETRIC DATA		
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		BETA = .000	MPSRA = .000	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		POWER = 1.000	OPR = 48.600	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		SRMPR = 2.020	RUDDER = .000	
SCALE = .0190					

RUN NO. 93/ 0　　RN/L = 2.70　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.898	-8.100	-.45690	.14330	.14940	.11859	.24117	-.02130	.01190	-.00280	-.13230	.01320
.900	-3.990	-.20930	.04790	.05350	.13380	.23723	-.02300	.01380	-.00340	.00900	.00470
.899	.060	.03150	-.05450	-.04920	.13497	.23232	-.02211	.01330	-.00300	.14900	-.00920
.904	4.060	.24980	-.13140	-.12650	.14054	.22723	-.01920	.01140	-.00440	.25770	.02650
.898	6.010	.34130	-.15760	-.15230	.12723	.22087	.01210	.00610	-.00470	.29270	-.04030
GRADIENT		.05704	-.02228	-.02237	.00084	-.00124	.00047	-.00030	.00012	.03090	.00412

CALSPAN T14-053　　　01 T1 S1　　SRMPA = 1.2 X NOM　　　　(RUF094)　　(26 SEP 73)

REFERENCE DATA

			PARAMETRIC DATA		
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		BETA = .000	MPSRA = .000	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		POWER = 1.000	OPR = 28.310	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		SRMPR = 2.400	RUDDER = .000	
SCALE = .0190					

RUN NO. 94/ 0　　RN/L = 2.66　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.898	-7.970	-.44730	.13790	.14280	.11797	.22019	-.02130	.01200	-.00270	-.13170	.01180
.894	-3.980	-.20770	.04840	.05320	.16505	.21159	-.02240	.01350	-.00320	.00490	.00070
.901	.120	.03070	-.05290	-.04850	.13507	.21224	-.02270	.01380	-.00290	.14860	.00890
.905	4.090	.24730	-.12920	-.12520	.13776	.20701	-.02050	.01230	-.00410	.25300	.02930
.897	6.070	.33720	-.15460	-.14990	.11851	.19803	.01270	.00670	-.00470	.29580	.03990
GRADIENT		.05639	-.02202	-.02212	.00158	-.00056	.00023	-.00015	.00011	.03207	.00371

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CALSPAN T14-053   01 T: S1   1A36   (RUF095)   (26 SEP 73)

REFERENCE DATA

PARAMETRIC DATA

SREF =	2690.0004 FT.SQU	XMRP = 953.000 INCHES
LREF =	1328.0002 INCHES	YMRP = .0000 INCHES
BREF =	1328.0002 INCHES	ZMRP = 400.0000 INCHES
SCALE =	.0190	

BETA = .000   MPSRA = .000
POWER = .000   RUDDER = 10.000

RUN NO. 95/ 0   RN/L = 2.15   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.203	-8.100	-.52640	.20052	.20610	.24522	.37964	.01580	-.01930	.00540	-.17130	-.00270
1.202	-4.040	-.24520	.09054	.09610	.25590	.38126	.04890	-.01560	.00350	-.00500	-.00590
1.206	-.020	.00810	.01590	-.01030	.26184	.37947	.00780	-.01320	.00310	.14880	-.01020
1.204	3.990	.24460	-.10510	-.10010	.25619	.36418	-.00190	-.00100	.00100	.26110	-.01130
1.202	6.030	.36280	-.15200	-.14530	.25272	.35727	-.00270	.00400	.00060	.32790	-.01470
	GRADIENT	.36100	-.02443	-.02443	-.00008	-.00213	-.00134	.00182	-.00031	.03514	-.00067

CALSPAN T14-053   01 T: S1   1A36   (RUF096)   (26 SEP 73)

REFERENCE DATA

PARAMETRIC DATA

SREF =	2690.0004 FT.SQU	XMRP = 953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP = .0000 INCHES
BREF =	1328.0002 INCHES	ZMRP = 400.0000 INCHES
SCALE =	.0190	

ALPHA = .000   MPSRA = .000
POWER = .000   RUDDER = 10.000

RUN NO. 96/ 0   RN/L = 2.12   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.200	-6.080	-.01360	-.00940	-.00350	.24669	.36771	.32790	-.15910	.05050	.28440	-.02120
1.203	-3.050	-.00280	-.01220	-.00550	.25275	.37077	.17760	-.09770	.03360	.23000	-.01480
1.199	.000	.01080	-.01740	-.01170	.25910	.37829	.00980	-.01370	.00230	.15870	-.01040
1.203	3.050	-.00530	-.01110	-.00520	.24890	.36331	-.15480	.06500	.02520	.03740	-.00520
1.203	6.080	-.01030	-.01180	-.00600	.24288	.35005	-.30420	.12420	.05130	-.03160	-.00050
	GRADIENT	-.00041	.00018	.00021	-.00063	-.00122	-.05449	.02667	.00067	-.03157	.00157

CALSPAN T14-053   01 T1 S1   IA36

REFERENCE DATA   (RUF097)   (26 SEP 73)

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

BETA	=	.000	MPSRA	=	.000
POWER	=	1.000	OPR	=	36.200
SRMPR	=	2.330	RUDDER	=	10.000

RUN NO. 97/ 0   RN/L = 2.11   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.187	-7.790	-.48570	.17500	.18120	.23872	.35351	.01350	-.01870	.00530	-.16740	-.00050
1.205	-4.020	-.23580	.08320	.08970	.25799	.35503	.01400	-.01760	.00440	-.00110	-.00400
1.157	4.060	.25540	-.11630	-.10930	.24100	.34607	.00050	-.00520	.00210	.26050	-.01150
1.190	6.010	.36370	-.15670	-.15050	.23877	.32841	.00030	-.00190	.070	.33150	-.01370
GRADIENT		.06079	-.02469	-.02458	-.00210	-.00235	-.00166	.00153	-.00028	.0323	-.00093

CALSPAN T14-053   01 T1 S1   IA36

REFERENCE DATA   (RUF098)   (26 SEP 73)

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

ALPHA	=	.000	MPSRA	=	.000
POWER	=	1.000	OPR	=	36.200
SRMPR	=	2.330	RUDDER	=	10.000

RUN NO. 98/ 0   RN/L = 2.10   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.195	-6.070	-.00210	-.01950	-.01360	.24567	.34149	.32280	-.15470	.06020	.28620	-.01990
1.206	-3.050	.09540	-.01860	-.01320	.26291	.34973	.17930	-.09900	.03430	.22990	-.01290
1.202	.000	.02630	-.02640	-.02060	.26089	.35720	.00950	-.01300	.00370	.15890	-.00350
1.203	3.050	-.00110	-.01430	-.00830	.24995	.34275	-.15630	.06600	-.02520	.03750	.00290
1.199	6.080	-.01050	-.01170	-.00620	.24785	.34001	-.30180	.12320	-.05070	-.02100	.00170
GRADIENT		-.00107	.00070	.00080	-.00212	-.00114	-.05502	.02689	-.00975	.03154	.00154

CALSPAN T14-053   01 T1 S1   OPR = ? ? ^ NOM   (RUF099) (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	
SCALE = .0190		

PARAMETRIC DATA

ALPHA = .000	MPSRA = .000
POWER = 1.000	OPR = 97.600
SRMPR = 2.330	RUDDER = 10.000

RUN NO. 99/ 0   RN/L = 2.10   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.200	-6.080	.01580	-.03440	-.03000	.24789	.32486	.31360	-.14920	.05850	.29150	-.01850
1.202	-3.050	.00920	-.02640	-.02170	.25187	.32909	.17260	-.09310	.03280	.22280	-.01230
1.198	.000	.01650	-.02340	-.01910	.25746	.33473	.00520	-.01120	.00260	.15090	-.00820
1.200	3.050	-.00200	-.01780	-.01300	.24467	.32250	-.15730	.06530	-.02580	.03970	-.00130
1.200	6.080	-.00520	-.01950	-.01470	.23700	.32080	-.30930	.12310	-.05130	-.00780	-.00450
1.198	GRADIENT	-.00184	.00140	.00143	-.00118	-.00108	-.05408	.02597	-.00961	-.03002	-.00180

CALSPAN T14-053   01 T1 S1   1A36   (RUF100) (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	
SCALE = .0130		

PARAMETRIC DATA

BETA = .000	MPSRA = .000
POWER = .000	RUDDER = 10.000

RUN NO. 100/ 0   RN/L = 2.76   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.901	-8.100	-.46930	.15210	.15620	.11049	.22170	-.01460	.00510	.00040	-.12200	-.01190
.900	-4.190	-.22680	.05670	.06060	.11778	.21559	-.01920	.00820	-.00040	-.00980	-.00290
.899	.020	.01850	-.03450	-.03950	.11570	.21112	-.01770	.00680	.00030	-.14280	-.00990
.903	3.980	.23030	-.11660	-.11310	.11810	.20733	.01620	.00560	-.00040	.25200	-.03000
.903	6.010	.32720	-.14480	-.14130	.11195	.20055	.01140	.00220	-.00070	.29230	-.03950
.899	GRADIENT	.05597	-.02124	-.02129	.00003	-.00101	.00037	-.00032	.00000	.02967	-.04003

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CALSPAN T14-053   01 T1 S1   1A36   (RUF101)   (26 SEP 73)

REFERENCE DATA

			PARAMETRIC DATA
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = .000	RUDDER = 10.000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		
SCALE = .0190			

RUN NO. 101/ 0   RN/L = 2.75   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.900	-6.080	.00040	-.03490	-.03090	.11684	.20649	.31780	-.15560	.05690	.22910	-.03900
.901	-3.050	.01340	-.04160	-.03800	.12048	.20788	.16320	-.08700	.03170	.20740	-.02450
.903	.000	.01830	-.04350	-.03990	.12528	.21312	-.01610	.00620	.00070	.15810	-.00750
.902	3.050	.01200	-.04190	-.03800	.12006	.20035	-.16690	.07900	-.02370	.11180	.00460
.903	6.090	-.00220	-.03330	.02010	.11719	.20915	-.31490	.13850	-.04530	.05930	.01920
	GRADIENT	-.00023	-.00005	.00000	-.00007	.00029	-.05411	.02721	-.00908	-.01567	.00477

CALSPAN T14-053   01 T1 S1   1A36   (RUF102)   (26 SEP 73)

REFERENCE DATA

			PARAMETRIC DATA
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	BETA = .000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.020	RUDDER = 10.000
SCALE = .0190			

RUN NO. 102/ 0   RN/L = 2.79   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.899	-7.860	-.44780	.14350	.14890	.12276	.24087	-.01550	.00620	-.00090	-.12940	.01150
.902	-4.040	-.20770	.04490	.05010	.13781	.23924	-.01830	.00900	-.00210	.00530	.00330
.900	-.030	.02490	-.04860	-.04360	.13812	.23803	-.01600	.00700	-.00080	.13470	-.00770
.903	4.110	.25120	-.12860	-.12410	.14336	.23101	-.01410	.00580	.00220	.24830	.03010
.921	6.080	.32540	-.14590	-.14150	.15305	.23452	-.00900	.00230	.00150	.29570	.03640
	GRADIENT	.05630	-.02130	-.02136	.00068	-.00101	.00052	-.00039	.00001	.02980	.00411

CAL SPAN T14-053   01 TI SI   IA36   (RUF103)   (26 SEP 73)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.020	RUDDER = 10.000
SCALE = .0190			

RUN NO. 103/ 0   RN/L = 2.79   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.905	-6.090	.00290	-.03580	-.03020	.13627	.23114	-.32660	-.16220	.05730	.21770	-.04030
.895	-3.050	.01760	-.04430	-.03890	.13179	.22919	.16730	-.09020	.03150	.19170	-.02740
.906	.000	.03540	-.05410	-.04910	.17095	.26034	.01550	.00700	.00110	.15280	-.00840
.900	3.060	.01410	-.04160	-.03520	.16114	.25096	-.17490	.08530	-.02630	.10950	.00650
.895	6.090	-.00550	-.03090	-.02490	.14755	.24386	-.32460	-.14460	-.04780	.04920	.01950
GRADIENT		-.00058	.00044	.00044	.00480	.00356	-.05599	.02872	-.00946	-.01362	.00538

CAL SPAN T14-053   01 TI SI   OPR = 2.45 X NOM   (RUF104)   (26 SEP 73)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 69.300
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.020	RUDDER = 10.000
SCALE = .0190			

RUN NO. 104/ 0   RN/L = 2.79   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.907	-6.090	.00580	-.03950	-.03380	.14700	.23701	-.33560	-.16700	.05810	.21870	-.03950
.898	-3.050	.02410	-.05110	-.04510	.13608	.23191	.17270	-.09350	.03220	.20220	-.02630
.898	.000	.02250	-.04730	-.04130	.13566	.23971	.01470	.00590	-.00050	.14090	-.00640
.899	3.060	.01910	-.04690	-.04080	.13956	.23451	-.17790	.08810	-.02780	.10940	.00540
.895	6.090	-.00220	-.03380	-.02730	.12643	.22632	-.32670	-.14650	-.04860	.05670	.01950
GRADIENT		-.00082	.00059	.00070	.00057	.00042	-.05738	.02972	-.00982	-.01519	.00527

CALSPAN T14-053   01 T1 S1   1A36   (RUF105)   (26 SEP 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA =	.000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER =	1.000	OPR = 35.200
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR =	2.330	RUDDER = .000
SCALE = .0190			

RUN NO. 105/ 0   RN/L = 2.12   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNM	CHM
1.204	-6.080	-.00760	-.01620	-.01060	.25354	.34546	.31410	.27550	.05480		
1.201	-3.040	.00140	-.01740	-.01160	.25767	.34875	.16500	.22730	.02830		
1.202	.000	.01770	-.02160	-.01600	.26201	.35766	-.00370		-.00180		
1.195	3.05.	-.00220	-.01450	-.00850	.24940	.34289	-.16730		-.03070		
1.205	6.080	-.00590	-.01520	-.00960	.24639	.33921	-.31620		-.05650		
GRADIENT		-.00059	.00048	.00049	-.00136	-.00096	-.05456	-.03651	-.00969		

CALSPAN T14-053   01 T1 S1   1A36   (RUF106)   (26 SEP 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA =	.000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER =	.000	RUDDER = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES			
SCALE = .0190			

RUN NO. 106/ 0   RN/L = 2.11   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNM	CHM
1.206	-6.080	-.00630	-.01390	-.00790	.25277	.36902	.32140	.27240	.05580		.02060
1.205	-3.050	-.00070	-.01420	-.00820	.25827	.37288	.16680	.21560	.02820		.01490
1.204	.000	0.320	-.01930	-.01350	.26605	.38074	-.00290	.14780	-.00200		.01070
1.204	3.050	-.00170	-.01370	-.00760	.25552	.36480	-.15880	.029.0	.02960		.00500
1.204	6.090	-.00850	-.01330	-.00720	.25115	.36313	-.31790	.13640	-.05680		.00050
GRADIENT		-.00016	.00005	.00010	-.00045	-.00132	-.05336	-.03557	-.00948		.00162

CALSPAN T14-053   01 T1 S1   1A36   (RUF107)   (26 SEP 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

PARAMETRIC DATA

ALPHA =		MPSRA =	.000
POWER =		RUDDER =	.000

RUN NO. 107/ 0   RN/L = 2.75   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.906	-6.080	.00380	-.03860	-.03490	.11092	.20313	.29530	-.13340	.04750	.21830	-.03940
.911	-3.050	.02340	-.05170	-.04820	.11924	.21045	.15080	-.07350	.02450	.20390	-.02240
.900	.000	.02090	-.04560	-.04190	.11412	.21255	-.02820	.01800	-.00400	.14330	-.00820
.901	3.050	.01170	-.04250	-.03860	.11603	.20738	-.17430	.08710	-.02700	.09240	.00430
.903	6.090	-.00060	-.03480	-.03020	.10901	.21030	-.32630	.15020	-.05020	.05110	.01900
GRADIENT		-.00192	.00151	.00157	-.00053	-.00050	-.05330	.02633	-.00844	-.01711	.00739

CALSPAN T14-053   01 T1 S1   1A36   (RUF108)   (26 SEP 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

PARAMETRIC DATA

ALPHA =		MPSRA =	.000
POWER =		OPR =	28.310
SRMPR =		RUDDER =	.000

RUN NO. 108/ 0   RN/L = 2.77   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.902	-5.080	.00740	-.04040	-.03510	.12281	.22111	.30710	-.14100	.04820	.22810	-.04230
.890	-3.050	.02050	-.04720	-.04170	.11051	.21785	.15480	-.07580	.02560	.18570	-.02870
.900	.000	.03150	-.05180	-.04670	.13887	.23650	-.02300	.01430	-.00350	.15170	-.00820
.895	3.060	.01990	-.04640	-.04000	.12909	.22814	-.18140	.09040	-.02820	.10630	.00440
.902	6.090	.00000	-.03370	-.02750	.12755	.22779	-.33050	.15140	-.05080	.05770	.01990
GRADIENT		-.00010	.00013	.00015	.00304	.00168	-.05502	.02720	-.00880	-.01273	.00542

CALSPAN T14-053   01 T1 S1   IA36   (RUF109)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA = .000   MPSRA = .000
POWER = 1.000   OPR = 36.200
SRMPR = 2.330   RUDDER = .000

RUN NO. 109/ 0   RN/L = 2.07   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW
1.201	-.120	.01290	-.02440	-.01980	.26078	.34957	-.00530	.00090	-.00200	.13770
1.201	4.040	.25020	.15400	-.11010	.25680	.33955	-.01460	.01120	-.00370	.25500
1.203	5.920	.35570	.15400	-.14870	.25847	.33527	-.00890	.00830	-.00390	.31920
	GRADIENT	.05704	.02188	-.02171	-.00096	-.00241	.00209	.00272	-.00041	.02820

CALSPAN T14-053   01 T1 S1   IA36   (RUF110)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

ALPHA = .000   MPSRA = .000
POWER = 1.000   OPR = 36.200
SRMPR = 2.330   RUDDER = .000

RUN NO. 110/ 0   RN/L = .16   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW
1.199	-6.080	-.00740	-.01900	-.01390	.25175	.33959	.30900	-.13820	.05330	.27450
1.204	-3.040	-.00460	-.01490	-.01000	.25211	.33997	.15980	-.07900	.02670	.21710
1.204	.006	-.00260	-.01720	-.01280	.25961	.34764	-.01690	.01150	-.00340	.13960
1.207	3.050	-.00490	-.01590	-.01100	.25091	.33771	-.16330	.07620	-.02980	.02690
1.196	6.080	-.01450	-.01400	-.00910	.24464	.33452	-.31320	.13520	-.05590	-.02680
	GRADIENT	-.00005	.00016	.00016	-.00020	-.00037	-.05305	.02548	-.09928	-.03123

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CALSPAN T14-053   01 T1 S1   1A36   (RUF111)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA = .000   MPSRA = .000
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   POWER = 1.000   OPR   = 28.310
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES   SRMPR = 2.020   RUDDER = .000
SCALE = .0190

RUN NO. 111/ 0   RN/L = 2.69   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CNW
.901	-8.110	-.46980	.15250	.15810	.11630	.24555	-.02920	.01690	-.00410	-.14210	.01290
.902	-4.120	-.21570	-.04830	.05370	.13157	.24477	-.03190	.02040	-.00560	-.00210	.00500
.904	-.100	.01150	-.04010	-.03490	.13443	.24290	-.02810	.01780	-.00410	.13790	.00530
.902	3.970	.23480	-.12200	-.11700	.12637	.22983	-.02580	.01510	-.00530	.24580	.02900
.902	5.990	.34240	-.15830	-.15320	.12691	.22641	.01640	.01030	-.00520	.29300	-.09550
	GRADIENT	.55558	-.02105	-.02110	-.00065	-.00185	.00075	-.00053	.00004	.03063	-.04121

CALSPAN T14-053   01 T1 S1   1A36   (RUF112)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   ALPHA = .000   MPSRA = .000
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   POWER = 1.000   OPR   = 28.310
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES   SRMPR = 2.020   RUDDER = .000
SCALE = .0190

RUN NO. 112/ 0   RN/L = 2.65   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CNW
.903	-6.060	-.00100	-.03390	-.02840	.12925	.23271	.31000	-.14210	.04890	.21360	-.04070
.904	-3.050	.01320	-.04450	-.03930	.13426	.23930	.15420	-.07540	.02520	.19450	-.02410
.901	.000	.02470	-.05020	-.04510	.13524	.23973	.02930	.01870	.09450	.14260	-.00540
.900	3.050	.00900	-.03740	-.03190	.13468	.23456	-.18290	.09400	.02870	.10620	.00720
.901	6.090	-.00090	-.03560	-.02970	.12449	.23106	-.33990	.15770	.05200	.04220	.02090
	GRADIENT	-.00069	.00116	.00121	.00007	-.00078	.05526	.02777	.00864	-.01448	.00513

CALSPAN T14-053   01 T1 S1   1A36

(RUF113)   (26 SEP 73)

PARAMETRIC DATA

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES	
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES	
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES	
SCALE =	.0190			

BETA =	.000
POWER =	1.000
SRMPR =	2.330

MPSRA =	.000
OPR =	36.200
RUDDER =	.000

RUN NO. 113/ C   RN/L = 2.06   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.204	-8.030	-.50280	.18730	.19450	.25429	.36393	-.00630	-.17310	-.00180	.00000	-.00010
1.207	-4.010	-.23350	.09460	.09140	.26891	.36319	-.01250	.00040	-.00290	.00050	-.00350
1.207	.010	.01220	-.01900	-.01230	.27220	.36110	-.01450	.15440	-.00320	.00500	-.00600
1.199	3.990	.25050	-.11540	-.10860	.25926	.33779	-.02020	.26470	-.00490	.01140	-.00970
1.203	6.000	.36000	-.16000	-.15420	.26005	.33200	-.01520	.33410	-.00510	.01520	-.01240
GRADIENT		.06050	-.02650	-.02500	-.00133	-.00317	-.00096	.03305	-.00025	.00149	-.00078

CALSPAN T14-053   01 T1 S1   1A36

(RUF114)   (26 SEP 73)

PARAMETRIC DATA

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES	
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES	
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES	
SCALE =	.0190			

ALPHA =	.000
POWER =	1.000
SRMPR =	2.330

MPSRA =	.000
OPR =	36.200
RUDDER =	.000

RUN NO. 114/ 0   RN/L = 2.05   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
1.208	-6.070	-.00720	-.01560	-.00870	.25952	.34647	.31000	-.14680	.05500	.28490	-.01910
1.203	-3.040	-.02470	-.03270	-.02560	.26044	.34821	.15540	-.07930	.02740	.23290	-.01330
1.198	.000	.01400	.01930	.01320	.26778	.35941	-.01050	.00320	.02270	.15610	-.00870
1.203	3.050	.06640	.02020	.01370	.25605	.34391	-.17070	.08140	-.03150	.04140	-.00180
1.203	6.080	-.00080	.02070	.01370	.25063	.34106	-.32210	.14180	-.05840	.01520	.00410
GRADIENT		-.00300	.00205	.00204	-.00072	-.00071	-.05355	.02639	-.00957	.03145	.00189

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CALSPAN T14-053   01 T1 S1   1A36   (RUF115)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES			PARAMETRIC DATA
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

BETA = .000 MPSRA = .000
POWER = 1.000 OPR = 28.310
SRMPR = 2.020 RUDDER = .000

RUN NO. 115/ 0   RN/L = 2.68   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CPW
.901	-8.060	-.44560	.13540	.14250	.12998	.26278	-.02700	.01540	-.00300	-.12770	.01550
.903	-3.970	-.18970	.03290	.03990	.13932	.25799	-.02850	.01840	-.00450	.01510	.02710
1.030	.070	.05530	-.07350	-.05730	.14022	.25144	-.02900	.01820	-.00480	.15330	.00590
.901	4.020	.26310	-.14220	-.13570	.13259	.23971	-.02770	.01810	-.00560	.26250	.02960
.900	5.990	.36470	-.17470	-.16830	.13013	.23635	-.02230	.01390	-.00580	.29920	.03990
	GRADIENT	.05669	-.02193	.02199	-.00054	-.00228	.00010	-.00004	-.00012	.02973	-.00445

CALSPAN T14-053   01 T1 S1   1A36   (RUF11E)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES			PARAMETRIC DATA
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

ALPHA = .000 MPSRA = .000
POWER = 1.000 OPR = 28.310
SRMPR = 2.020 RUDDER = .000

RUN NO. 116/ 0   RN/L = 2.69   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	C/	CA	CY	CYN	CBL	CNW	CNW
.900	-6.080	.02620	-.05420	-.04730	.13087	.24138	.31690	-.14800	.05040	.23030	-.04010
.902	-3.050	.01870	-.04350	-.03700	.14025	.24872	.14600	-.07090	.02430	.21460	-.02450
.899	.000	.05140	-.07020	-.06330	.13660	.24971	-.03120	.02030	-.04490	.15500	.00620
.899	3.060	.04270	-.06690	-.05660	.13702	.24515	-.19020	.09040	.03010	.10930	-.00900
.901	6.090	.02620	-.05480	-.04760	.1318+	.24323	-.34050	.16180	-.05030	.05030	-.02200
	GRADIENT	.00392	-.00393	-.00370	-.00110	-.00059	-.05502	.02771	-.00890	-.01723	-.00530

CALSPAN T14-053　　01 T1 S1　　1A36　　　　(RUF117)　(26 SEP 73)

REFERENCE DATA　　　　　　　　　　　　　　　　　　　PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		BETA = .000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		POWER = .000	RUDDER = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES			
SCALE = .0190				

RUN NO. 117/ 0　　RN/L = 2.13　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHR
1.205	-8.090	-.52290	.19940	.20520	.24622	.38034	.00440	-.00730	-.00040	-.17690	-.00300
1.178	-6.110	-.37020	.14320	.14910	.24932	.38188	.00310	-.00650	-.00110	-.09130	-.00130
1.206	-4.070	-.24400	.08980	.09560	.25727	.38040	.00590	-.00680	-.00120	-.00360	-.00360
1.205	-2.010	-.11130	.03350	.03940	.25555	.38171	.00230	-.00480	-.00140	.07760	-.00750
1.205	-.030	-.00890	-.01680	-.01090	.25745	.37958	.00360	-.00160	-.00210	.14960	-.00950
1.200	2.030	.03120	-.06420	-.05830	.25588	.37469	.00210	-.00130	-.00240	.21710	-.01520
1.203	4.000	.24640	-.10830	-.10220	.24990	.36266	-.00780	-.00470	-.00340	.26140	-.01500
1.203	5.950	.35580	-.15110	-.14510	.24855	.35772	-.00760	.00700	-.00450	.32710	-.01650
1.203	7.990	.47000	-.19480	-.18880	.24498	.35035	-.00470	.00510	-.00480	.37990	-.01650
	GRADIENT	.06065	-.02448	-.02445	-.00031	-.00210	-.00157	.00131	.00027	.03318	-.00281

CALSPAN T14-053　　01 T1 S1　　1A36　　　　(RUF118)　(26 SEP 73)

REFERENCE DATA　　　　　　　　　　　　　　　　　　　PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		ALPHA = .000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		POWER = .000	RUDDER = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES			
SCALE = .0190				

RUN NO. 118/ 0　　RN/L = 2.12　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHR
1.207	-8.080	-.05050	.00170	-.00780	.24019	.36675	.42420	-.18540	.07080	.29200	.02350
1.204	-6.060	-.00820	-.01340	-.00740	.24398	.36783	.32490	-.14980	.05590	.29110	.02460
1.205	-4.030	-.00630	-.01280	-.00670	.24645	.36952	.22140	-.10820	.03810	.24960	.01780
1.205	-3.040	-.00260	-.01370	-.00780	.24873	.37133	.17240	-.08740	.02910	.22970	.01560
1.204	-2.020	-.00030	-.01510	-.00910	.25137	.37412	.11840	-.06340	.01940	.20950	.01330
1.202	.000	-.00360	-.01790	-.01200	.25558	.37867	.00210	-.00430	-.00130	.15970	.01130
1.203	2.040	-.00470	-.01150	-.00540	.25142	.36998	-.10820	.05160	-.02060	.07330	.00580
1.204	3.040	-.00750	-.01050	-.00460	.24706	.35460	-.16350	.07540	-.03010	.03650	.00540
1.205	4.030	-.01350	-.00630	-.00600	.24500	.36276	-.20470	.09280	-.03300	.00410	.00430
1.205	6.060	-.01190	-.01160	-.00550	.24078	.36162	-.31520	.13570	-.05630	-.03510	.00100
1.206	8.090	-.01540	-.01190	-.00570	.23822	.36218	-.41310	.17080	-.07110	-.06270	.00200
	GRADIENT	-.00091	.00055	-.00056	-.00018	-.00038	-.05406	.02600	-.00960	-.03131	.00170

CALSPAN T14-053   01 T1 S1   1A36   (RUF119) (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA = .000   MPSRA = .000
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   POWER = .000   RUDDER = .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

RUN NO. 119/ 0   RN/L = 2.79   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.902	-6.140	-.34110	.10360	.10860	.11828	.23826	.01820	.01200	-.00280	-.05480	.01020
.903	-4.040	-.21100	.04840	.05330	.12136	.23840	.02370	.01560	-.00420	-.01480	.00600
.902	-2.060	-.09120	.00270	.00180	.12464	.23683	.02290	.01520	-.00370	.09550	.00070
.903	.010	.02650	-.05010	-.04550	.12381	.23391	.01900	.01230	-.00330	.14940	-.00680
.902	2.010	.13390	-.08760	-.08320	.12071	.22709	.01820	.01160	-.00390	.19950	-.01920
.902	4.000	.23720	-.12270	-.11840	.11789	.22040	.01820	.01160	-.00410	.25280	-.03000
.902	6.020	.33350	-.15090	-.14670	.11594	.21894	.01620	.01090	-.00460	.29250	-.04000
.905	7.990	.43550	-.18740	-.18310	.11264	.21492	.01370	.00930	-.00420	.34180	-.04540
.902	GRADIENT	.05566	-.02120	-.02126	-.00054	-.00227	.00098	-.00065	.00000	.02923	-.00456

CALSPAN T14-053   01 T1 S1   1A36   (RUF120) (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   ALPHA = .000   MPSRA = .000
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   POWER = .000   RUDDER = .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

RUN NO. 120/ 0   RN/L = .21   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CN	CLMF	CLM	CAF	CA	CY	CYN	CBL	CNW	CHW
.904	-8.090	-.04440	-.01680	-.01140	.11334	.22413	.41810	-.18580	.06430	.21470	-.04710
.902	-5.070	.00620	-.03930	-.03430	.11600	.22290	.31510	-.14420	.05000	.22650	-.04070
.902	-4.040	.01420	-.04490	-.04030	.11941	.22292	.21370	-.10090	.03440	.21460	-.02960
.902	-3.040	.01780	-.04620	-.04170	.12136	.22575	.16020	-.07710	.02600	.21220	-.02510
.901	-2.030	.02250	-.04820	-.04370	.12363	.22712	.10640	-.05240	.01680	.20170	-.01950
.900	2.030	.02260	-.04920	-.04450	.12265	.22523	-.11820	.06280	-.01830	.13370	-.00670
.903	3.040	.01850	-.04760	-.04260	.11739	.22447	-.17420	.08740	-.02700	.11300	-.00630
.903	4.040	.01060	-.04230	-.03730	.12210	.22728	-.22200	.10810	-.03450	.09510	.01220
.903	6.070	.00160	-.03560	-.03010	.11481	.22455	-.32880	.15300	-.05110	.05590	.02700
.900	8.100	-.01440	-.02630	-.02030	.10685	.22219	-.42910	.19320	-.06640	.02210	.02700
.900	GRADIEN	-.00021	.00007	.00013	-.00035	.00017	-.05444	.02658	.03860	-.01554	.05515

CALSPAN T14-053　　02 T1 S1　　1A36　　　　　　(SUF073)　(14 NOV 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

BETA	=	.000	DOPR	=	28.310
DSRMPR	=	2.020			

MACH = .900

	ALPHA	DCAF	DCAB	DCN	DCLMF	CAF	CAB	CN	CLMF
	.000	.01492	.00960	.00170	.00075	.11637	.09433	.01990	-.04575
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 2.67　　GRADIENT INTERVAL = -5.00/ 5.00

CALSPAN T14-053　　02 T1 S1　　1A36　　　　　　(SUF077)　(14 NOV 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

BETA	=	.000	DOPR	=	36.200
DSRMPR	=	2.330			

MACH = 1.200

	ALPHA	DCAF	DCAB	DCN	DCLMF	CAF	CAB	CN	CLMF
	.000	.00777	-.02176	.00958	-.00730	.25228	.12272	.00580	-.01609
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 2.02　　GRADIENT INTERVAL = -5.00/ 5.00

CALSPAN T14-053　　01 T1 S1　　1A36　　　　　　(SUF083)　(14 NOV 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

BETA	=	.000	DOPR	=	36.200
DSRMPR	=	2.330			

MACH = 1.200

	ALPHA	DCAF	DCAB	DCN	DCLMF	CAF	CAB	CN	CLMF
	.000	.00597	-.02615	.01371	-.00995	.25228	.12272	.00580	-.01609
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

RN/L = 2.09　　GRADIENT INTERVAL = -5.00/ 5.00

CALSPAN T14-053   01 T1 S1   OPR = 2.65 X NOM   (SUF085)   (14 NOV 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

PARAMETRIC DATA

BETA = .000   DOPR = 95.800
DSRMPR = 2.330

MACH = 1.200   RN/L = 2.06   GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DCAF	DCAB	DCN	DCLMF	CN	CAB	CAF	CLMF
.000	.00086	-.04023	.01835	-.01566	.00580	.12272	.25228	-.01609
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   OPR = 1.84 X NOM   (SUF086)   (14 NOV 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

PARAMETRIC DATA

BETA = .000   DOPR = 66.700
DSRMPR = 2.330

MACH = 1.200   RN/L = 2.01   GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DCAF	DCAB	DCN	DCLMF	CN	CAB	CAF	CLMF
.000	.00731	-.03208	.01543	-.01032	.00580	.12272	.25228	-.01609
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   SRMPR=1.36 X NOM   (SUF097)   (14 NOV 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

PARAMETRIC DATA

BETA = .000   DOPR = 36.200
DSRMPR = 2.330

MACH = 1.200   RN/L = 2.06   GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DCAF	DCAB	DCN	DCLMF	CN	CAB	CAF	CLMF
.000	.00357	-.05249	.01713	-.01598	.00580	.12272	.25228	-.01609
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 49

CALSPAN T14-053   01 T1 S1   1A36

(SUF090)   (14 NOV 73)

REFERENCE DATA

SREF	= 2690.0004 FT.SQU	XMRP	= 953.0001 INCHES
LREF	= 1328.0002 INCHES	YMRP	= .0000 INCHES
BREF	= 1328.0002 INCHES	ZMRP	= 400.0000 INCHES
SCALE	= .0190		

PARAMETRIC DATA

BETA	= .000	DOPR	= 28.310
DSRMPR	= 2.020		

MACH = .900   RN/L = 2.69   GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DCAF	DCAB	DCN	DCLMF	CAF	CAB	CN	CLMF
.000	.01840	.00164	-.00202	.00266	.11637	.09433	.01990	-.04575
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   OPR = 2.5 X NOM

(SUF092)   (14 NOV 73)

REFERENCE DATA

SREF	= 2690.0004 FT.SQU	XMRP	= 953.0001 INCHES
LREF	= 1328.0002 INCHES	YMRP	= .0000 INCHES
BREF	= 1328.0002 INCHES	ZMRP	= 400.0000 INCHES
SCALE	= .0190		

PARAMETRIC DATA

BETA	= .000	DCPR	= 70.500
DSRMPR	= 2.020		

MACH = .900   RN/L = 2.70   GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DCAF	DCAB	DCN	DCLMF	CAF	CAB	CN	CLMF
.000	.02423	.00337	.00936	-.00761	.11637	.09433	.01990	-.04575
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   OPR = 1.72 X NOM

(SUF093)   (14 NOV 73)

REFERENCE DATA

SREF	= 2690.0004 FT.SQU	XMRP	= 953.0001 INCHES
LREF	= 1328.0002 INCHES	YMRP	= .0000 INCHES
BREF	= 1328.0002 INCHES	ZMRP	= 400.0000 INCHES
SCALE	= .0190		

PARAMETRIC DATA

BETA	= .000	DOPR	= 48.600
DSRMPR	= 2.020		

MACH = .900   RN/L = 2.70   GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DCAF	DCAB	DCN	DCLMF	CAF	CAB	CN	CLMF
.000	.01849	.00319	.00811	-.00734	.11637	.09433	.01990	-.04575
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   SRMPA = 1.2 X NOM   (14 NOV 73)

REFERENCE DATA   (SUF094)   28.310

PARAMETRIC DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

BETA = .000   DOPR = 2.400
DSRMPR = .00000

	MACH	=	.900
	ALPHA		.000
	GRADIENT		

RN/L = 2.68   GRADIENT INTERVAL = -5.00/ 5.00

DCAF	DCAB	DCN	DCLMF	CAF	CAB	CN	CLMF
.01829	-.01678	.00388	-.00435	.11637	.09433	.01990	-.04575
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   1A36   (14 NOV 73)

REFERENCE DATA   (SUF097)   36.200

PARAMETRIC DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

BETA = .000   DOPR = 2.330
DSRMPR = .00000

	MACH	=	1.200
	ALPHA		.000
	GRADIENT		

RN/L = 2.11   GRADIENT INTERVAL = -5.00/ 5.00

DCAF	DCAB	DCN	DCLMF	CAF	CAB	CN	CLMF
-.00801	-.02237	.00810	-.00322	.26183	.11759	.00931	-.01628
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   1A36   (14 NOV 73)

REFERENCE DATA   (SUF102)   28.310

PARAMETRIC DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

BETA = .000   DOPR = 2.020
DSRMPR = .00000

	MACH	=	.900
	ALPHA		.000
	GRADIENT		

RN/L = 2.79   GRADIENT INTERVAL = -5.00/ 5.00

DCAF	DCAB	DCN	DCLMF	CAF	CAB	CN	CLMF
.02242	.00444	.00928	-.00632	.11569	.09544	.01737	-.04297
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053　　01 T1 S1　　IA36　　(SUF109)　(14 NOV 73)

REFERENCE DATA

			PARAMETRIC DATA
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	BETA = .000	DOPR = 36.200
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	DSRMPR = 2.330	
SCALE = .0190			

MACH = 1.200

ALPHA						
.000						
GRADIENT	RN/L = 2.07	GRADIENT INTERVAL = -5.00/ 5.00				

DCAF	DCAB	DCN	DCLMF	CAF	CAB	CN	CLMF
.00831	-.03403	.01398	-.01099	.25228	.12272	.00590	-.01609
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053　　01 T1 S1　　IA36　　(SUF111)　(14 NOV 73)

REFERENCE DATA

			PARAMETRIC DATA
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	BETA = .000	DOPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	DSRMPR = 2.020	
SCALE = .0190			

MACH = .900

ALPHA						
.000						
GRADIENT	RN/L = 2.69	GRADIENT INTERVAL = -5.00/ 5.00				

DCAF	DCAB	DCN	DCLMF	CAF	CAB	CN	CLMF
.01791	.01397	-.00289	.00356	.11637	.09433	.01990	-.04575
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053　　01 T1 S1　　IA36　　(SUF113)　(14 NOV 73)

REFERENCE DATA

			PARAMETRIC DATA
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	BETA = .000	DOPR = 36.200
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	DSRMPR = 2.330	
SCALE = .0190			

MACH = 1.200

ALPHA						
.000						
GRADIENT	RN/L = 2.06	GRADIENT INTERVAL = -5.00/ 5.00				

DCAF	DCAB	DCN	DCLMF	CAF	CAB	CN	CLMF
.01994	-.03380	.00580	-.00266	.25228	.12272	.00580	-.01609
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL T14-053 (1A36)　　　　PAGE 52

CALSPAN T14-053　　　01 (1 S1　　　1A36　　　(SUF115)　(14 NOV 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES	
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES	
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES	
SCALE =	.0190			

PARAMETRIC DATA

BETA =	.000	DOPR =	28.3:0
DSRMPR =	2.020		

MACH = .900　　　RN/L = 2.68　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DCAF	DCAB	DCN	DCLMF	CAF	CAB	CN	CLMF
.030	.02393	.01698	.03144	-.02650	.11637	.09433	.01990	-.04575
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053　　　01 T1 S1　　　1A36　　　(PUF057)　(14 NOV 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES	
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES	
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES	
SCALE =	.0190			

PARAMETRIC DATA

DSRMPR =	2.330	DOPR =	36.200

MACH = 1.200　　　RN/L = 2.1:　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DDCAFR	DDCNDR	DDCMFR	DCAFDR	DCN/DR	DCM/OR
-8.000	-.00119	.00033	-.00067	.00055	-.00024	.00019
-4.000	-.00059	-.00090	-.00056	.00101	.00012	.00019
.000	-.00140	-.00056	-.00067	.00096	.00035	.00010
4.000	-.00207	.00022	-.00053	.00103	.00032	-.00002
6.000	-.00211	.00002	-.00011	.00102	.00019	-.00007
GRADIENT	-.00019	.00014	-.00014	.00000	.00002	-.00000

DATE 05 NOV 73   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 53

CALSPAN T14-053   01 T1 S1   1A36   (PUF098)   (14 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   ALPHA = .000   DOPR = 35.200
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   DSRMPR = 2.330
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

MACH = 1.200   RN/L = 2.10   GRADIENT INTERVAL = -5.00/ 5.00

BETA	DDCYDR	DDCBLR	DDCYNR	DCY/DR	DCBLDR	DCYNDR
-6.000	.00002	.00001	-.00007	.00114	.00057	-.00124
-3.000	.00008	.00032	-.00001	.00125	.00056	-.00131
.000	.00047	.00005	-.00016	.00105	.00048	-.00114
3.000	-.00032	-.00005	.00029	.00007	.00031	-.00053
6.000	-.00061	-.00004	.00055	-.00343	-.00050	-.00329
GRADIENT	-.00007	-.00001	.00005	-.00020	-.00004	.00013

CALSPAN T14-053   01 T1 S1   1A36   (PUF102)   (14 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA   = .000   DOPR = 28.310
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   DSRMPR = 2.020
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

MACH = .900   RN/L = 2.79   GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DDCAFR	DDCNOR	DDCMFR	DCAFDR	DCN/DR	DCMFDR
-8.000	-.00134	-.00182	.00070	.00063	.00009	.00007
-4.000	.00080	.00057	-.00064	.00020	.00003	.00021
.000	.00040	.00113	-.00090	-.00007	-.00025	.00028
4.000	.00150	.00044	-.00017	.00057	.00010	.00014
6.000	.00212	.00169	.00082	.00055	-.00018	.00011
GRADIENT	.00009	-.00002	.00006	.00010	-.00001	-.00001

CALSPAN T14-053　　01 T1 S1　　IA36　　　　　(PUF103)　(14 NOV 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

| ALPHA | = | .000 | DOPR | = | 28.310 |
| DSRMPR | = | 2.020 | | | |

MACH = .900　　RN/L = 2.79　　GRADIENT INTERVAL = -5.00/ 5.00

BETA	DDCYDR	DDCBLR	DDCYNR	DCY/DR	DCBLDR	DCYNDR
-6.000	-.00034	-.00003	.00007	.00203	.00088	-.00212
-3.000	-.00007	-.00006	.00011	.00123	.00066	-.00147
.000	-.00017	-.00024	.00029	.00061	.00035	-.00083
3.000	-.00096	-.00030	.00075	-.00035	-.00000	-.00042
6.000	-.00129	-.00035	.00073	-.00432	-.00085	-.00439
GRADIENT	-.00015	-.00004	.00011	-.00026	-.00011	-.00031

CALSPAN T14-053　　02 T1 S1　　IA36　　　　　(QUF073)　(14 NOV 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

| BETA | = | .000 | DOPR | = | 28.310 |
| DSRMPR | = | 2.020 | | | |

MACH = .900　　RN/L = 2.67　　GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DCN/A	DCMF/A	DXAC/L	CN/A	CLMF/A	XAC/L
.000	.00167	-.00145	.00864	.05595	-.02105	.66793
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   02 T1 S1   1A36   (QUF074) (14 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		ALPHA =	.000	DOPR = 29.310
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		DSRMPR =	2.020	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES				
SCALE = .0190					

RN/L = 2.69   GRADIENT INTERVAL = -5.00/ 5.00

MACH = .900

	BETA	DCY/B	DCBL/B	DCYN/B	DYAC/L	CY/B	CBL/B	CYN/B	XYAC/L
	.000	-.00008	-.00030	.00066	.00704	-.05330	-.00844	.02633	.73979
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   02 T1 S1   1A36   (QUF077) (14 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		BETA =	.000	DOPR = 36.200
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		DSRMPR =	2.330	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES				
SCALE = .0190					

RN/L = 2.02   GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200

	ALPHA	DCN/A	DCMF/A	DXAC/L	CN/A	CLMF/A	XAC/L
	.000	.00035	-.00055	.00410	.06076	-.02441	.68345
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   02 T1 S1   1A36   (QUF078) (14 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		ALPHA =	.000	DOPR = 36.200
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		DSRMPR =	2.330	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES				
SCALE = .0190					

RN/L = 2.05   GRADIENT INTERVAL = -5.00/ 5.00

MACH = 1.200

	BETA	DCY/B	DCBL/C	DCYN/B	DYAC/L	CY/B	CBL/B	CYN/B	XYAC/L
	.000	-.00001	.00012	-.00027	-.00311	-.05339	-.00948	.02613	.73707
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   IA36   (QUF083) (14 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA = .000   DCPR = 36.200
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   DSRMPR = 2.330
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

MACH = 1.200   RN/L = 2.09   GRADIENT INTERVAL = -5.00/ 5.00

	DCN/A	DCMF/A	DXAC/L	CN/A	CLMF/A	XAC/L
ALPHA .000	-.00156	.00107	-.00455	.06076	-.02441	.68345
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   OPR = 2.65 X NOM   (QUF085) (14 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA = .000   DOPR = 95.800
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   DSRMPR = 2.330
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

MACH = 1.200   RN/L = 2.06   GRADIENT INTERVAL = -5.00/ 5.00

	DCN/A	DCMF/A	DXAC/L	CN/A	CLMF/A	XAC/L
ALPHA .000	.00130	-.00130	.00763	.06076	-.02441	.68345
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   OPR = 1.84 X NOM   (QUF086) (14 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA = .000   DOPR = 66.700
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   DSRMPR = 2.330
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

MACH = 1.200   RN/L = 2.01   GRADIENT INTERVAL = -5.00/ 5.00

	DCN/A	DCMF/A	DXAC/L	CN/A	CLMF/A	XAC/L
ALPHA .000	-.00057	.00036	-.00135	.06076	-.02441	.68345
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

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CALSPAN T14-053   01 T1 S1   SRMPR=1.36 X NOM   (QUF087) (14 NOV 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = 400.0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA   = .000   DOPR = 36.200
DSRMPR = 2.330

MACH = 1.200   RN/L = 2.06   GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DCN/A	DCMF/A	DXAC/L	CN/A	CLMF/A	XAC/L
.000	-.00276	.00130	-.00205	.06076	-.02441	.68345
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   1A36   (QUF090) (14 NOV 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = 400.0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA   = .000   DOPR = 29.310
DSRMPR = 2.020

MACH = .900   RN/L = 2.69   GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DCN/A	DCMF/A	DXAC/L	CN/A	CLMF/A	XAC/L
.000	.00075	-.00085	.00608	.05595	-.02105	.66793
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   OPR = 2.5 X NOM   (QUF092) (14 NOV 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = 400.0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA   = .000   DOPR = 70.500
DSRMPR = 2.020

MACH = .900   RN/L = 2.70   GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DCN/A	DCMF/A	DXAC/L	CN/A	CLMF/A	XAC/L
.000	.00026	-.00027	.00184	.05595	-.02105	.66793
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1 OPR = 1.72 X NOM   (QUF093) (14 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0004 FT.SOU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

BETA =   .000   DOPR =   48.500
DSRMPR = 2.020

MACH =   .900   RN/L = 2.70   GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DCN/A	DCMF/A	DXAC/L	CN/A	CLMF/A	XAC/L
.000	.00109	-.00122	.00873	.05595	-.02105	.66793
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1 SRMPA = 1.2 X NOM   (QUF094) (14 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0004 FT.SOU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

BETA =   .000   DOPR =   28.310
DSRMPR = 2.400

MACH =   .900   RN/L = 2.68   GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DCN/A	DCMF/A	DXAC/L	CN/A	CLMF/A	XAC/L
.000	.00044	-.00097	.00867	.05595	-.02105	.66793
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   1A35   (QUF097) (14 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0004 FT.SOU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

BETA =   .000   DOPR =   36.200
DSRMPR = 2.330

MACH = 1.200   RN/L = 2.11   GRADIENT INTERVAL = -5.00/ 5.00

ALPHA	DCN/A	DCMF/A	DXAC/L	CN/A	CLMF/A	YAC/L
.000	-.00021	-.00026	.00340	.06100	-.02443	.68274
GRADIENT	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053　　01 T1 S1　　IA36　　　　(QUF098)　(14 NOV 73)

REFERENCE DATA　　　　　　　　　　　　　　　　　　　　PARAMETRIC DATA

```
SREF  = 2690.0004 FT.SQU   XMRP =  953.0001 INCHES        ALPHA  =    .000   DOPR  =    36.200
LREF  = 1328.0002 INCHES   YMRP =     .0000 INCHES        DSRMPR =   2.330
BREF  = 1328.0002 INCHES   ZMRP =  400.0000 INCHES
SCALE =    .0190
```

```
MACH  =   1.200
        BETA      DCY/B    DCBL/B   DCYN/B   DYAC/L   CY/B     CBL/B    CYN/B    XYAC/L
        .000    -.00052  -.00008   .00021  -.00048  -.05449  -.00967   .02667   .73702
GRADIENT         .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000
```

RN/L =　2.10　GRADIENT INTERVAL =　-3.00/ 5.00

CALSPAN T14-053　　01 T1 S1　　IA36　　　　(QUF102)　(14 NOV 73)

REFERENCE DATA　　　　　　　　　　　　　　　　　　　　PARAMETRIC DATA

```
SREF  = 2690.0004 FT.SQU   XMRP =  953.0001 INCHES        BETA   =    .000   DOPR  =    28.310
LREF  = 1328.0002 INCHES   YMRP =     .0000 INCHES        DSRMPR =   2.020
BREF  = 1328.0002 INCHES   ZMRP =  400.0000 INCHES
SCALE =    .0190
```

```
MACH  =    .900
        ALPHA     DCN/A    DCMF/A   DCYN/B   DXAC/L   CN/A     CLMF/A   XAC/L
        .000     .00032  -.00006   .00151  -.00065   .05597  -.02124   .65984
GRADIENT         .00000   .00000   .00000   .00000   .00000   .00000   .00000
```

RN/L =　2.79　GRADIENT INTERVAL =　-5.00/ 5.00

CALSPAN T14-053　　01 T1 S1　　IA36　　　　(QUF103)　(14 NOV 73)

REFERENCE DATA　　　　　　　　　　　　　　　　　　　　PARAMETRIC DATA

```
SREF  = 2690.0004 FT.SQU   XMRP =  953.0001 INCHES        ALPHA  =    .000   DOPR  =    28.310
LREF  = 1325.0002 INCHES   YMRP =     .0000 INCHES        DSRMPR =   2.020
BREF  = 1328.0002 INCHES   ZMRP =  400.0000 INCHES
SCALE =    .0190
```

```
MACH  =    .900
        BETA      DCY/B    DCBL/B   DCYN/B   DYAC/L   CY/B     CBL/B    CYN/B    XYAC/L
        .000    -.00187  -.00038   .00151   .00618  -.05411  -.00908   .02721   .74521
GRADIENT         .00000   .00000   .00000   .00000   .00000   .00000   .00000   .00000
```

RN/L =　2.79　GRADIENT INTERVAL =　-5.00/ 5.00

CALSPAN T14-053   01 T1 S1   1A36   (QUF105)   (14 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA	
SREF	=	2690.0004 FT.SQU	XMRP =	953.0001 INCHES	
LREF	=	1328.0002 INCHES	YMRP =	.0000 INCHES	ALPHA = .000 DOPR = 36.200
BREF	=	1328.0002 INCHES	ZMRP =	400.0000 INCHES	DSRMPR = 2.330
SCALE	=	.0190			

MACH = 1.200   RN/L = 2.12   GRADIENT INTERVAL = -5.00/ 5.00

	BETA	DCY/B	DCYN/B	DYAC/L	CY/B	CYN/B	XYAC/L
	.000	-.00119	.00039	-.00217	-.05338	.02613	.73707
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000
		DCBL/B			CBL/B		
		-.00021			-.00948		
		.00000			.00000		

CALSPAN T14-053   01 T1 S1   1A36   (QUF108)   (14 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA	
SREF	=	2690.0004 FT.SQU	XMRP =	953.0001 INCHES	
LREF	=	1328.0002 INCHES	YMRP =	.0000 INCHES	ALPHA = .000 DOPR = 28.310
BREF	=	1328.0002 INCHES	ZMRP =	400.0000 INCHES	DSRMPR = 2.020
SCALE	=	.0190			

MACH = .900   RN/L = 2.77   GRADIENT INTERVAL = -5.00/ 5.00

	BETA	DCY/B	DCYN/B	DYAC/L	CY/B	CYN/B	XYAC/L
	.000	-.00173	.00087	.00021	-.05330	.02633	.73979
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000
		DCBL/B			CBL/B		
		-.00036			-.00844		
		.00000			.00000		

CALSPAN T14-053   01 T1 S1   1A36   (QUF109)   (14 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA	
SREF	=	2690.0004 FT.SQU	XMRP =	953.0001 INCHES	
LREF	=	1328.0002 INCHES	YMRP =	.0000 INCHES	BETA = .000 DOPR = 36.200
BREF	=	1328.0002 INCHES	ZMRP =	400.0000 INCHES	DSRMPR = 2.330
SCALE	=	.0190			

MACH = 1.200   RN/L = 2.07   GRADIENT INTERVAL = -5.00/ 5.00

	ALPHA	DCN/A	DCMF/A	DXAC/L	CN/A	CLMF/A	XAC/L
	.000	-.00372	.00254	-.01115	.06076	-.02441	.68345
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   1A36   (QUF110)   (14 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

ALPHA = .000   DOPR = 36.200
DSRMPR = 2.330

MACH = 1.200   BETA = .000   GRADIENT

RN/L = .16   GRADIENT INTERVAL = -5.00/ 5.00

DCY/B	DCBL/B	DCYN/B	DYAC/L	CY/B	CBL/B	CYN/B	XYAC/L
.00033	.00020	-.00065	-.00564	-.05338	-.00948	.02613	.73707
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   1A36   (QUF111)   (14 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

BETA = .000   DOPR = 28.310
DSRMPR = 2.020

MACH = .900   ALPHA = .000   GRADIENT

RN/L = 2.69   GRADIENT INTERVAL = -5.00/ 5.00

DCN/A	DCBL/B	DCMF/A	DXAC/L	CN/A	CLMF/A	XAC/L
-.00026	.00000	.00001	.00103	.05595	-.02105	.66793
.00000		.00000	.00000	.00000	.00000	.00000

CALSPAN T14-053   01 T1 S1   1A36   (QUF112)   (14 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

ALPHA = .000   DOPR = 28.310
DSRMPR = 2.020

MACH = .900   BETA = .000   GRADIENT

RN/L = 2.65   GRADIENT INTERVAL = -5.00/ 5.00

DCY/B	DCBL/B	DCYN/B	DYAC/L	CY/B	CBL/B	CYN/B	XYAC/L
-.00197	-.00039	.00144	.00520	-.05330	-.00844	.02633	.73979
.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE   62

                        CALSPAN T14-053   01 T1 S1   1A36   (QUF113)   (14 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA   =   .000   DOPR =   36.200
LREF = 1328.0002 INCHES   YMRP =   .0000 INCHES   DSRMPR =   2.330
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE =   .0190

        MACH = 1.200   RN/L =   2.06   GRADIENT INTERVAL = -5.00/ 5.00

                ALPHA   DCN/A   DCMF/A   DXAC/L   CN/A   DCMF/A   CN/A   XAC/L
                 .000   -.00026   -.00059   .00702   .06076   -.02441   .68345
              GRADIENT   .00000   .00000   .00000   .00000   .00000   .00000

                        CALSPAN T14-053   01 T1 S1   1A36   (QUF114)   (14 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   ALPHA =   .000   DOPR =   28.310
LREF = 1328.0002 INCHES   YMRP =   .0000 INCHES   DSRMPR =   2.020
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE =   .0190

        MACH = 1.200   RN/L =   2.05   GRADIENT INTERVAL = -5.00/ 5.00

                BETA   DCY/B   DCBL/B   DCYN/B   DYAC/L   CY/B   CBL/B   CYN/B   XYAC/L
                 .000   -.00017   -.00020   .00026   .00197   -.05338   -.00948   .02613   .73707
              GRADIENT   .00000   .00000   .00000   .00000   .00000   .00000   .00000

                        CALSPAN T14-053   01 T1 S1   1A36   (QUF115)   (14 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA   =   .000   DOPR =   28.310
LREF = 1328.0002 INCHES   YMRP =   .0000 INCHES   DSRMPR =   2.020
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALF =   .0190

        MACH =   .900   RN/L =   2.68   GRADIENT INTERVAL = -5.00/ 5.00

                ALPHA   DCN/A   DCMF/A   DXAC/L   CN/A   CLMF/A   CN/A   XAC/L
                 .000   .00074   -.00088   .00646   .05595   -.02105   .66793
              GRADIENT   .00000   .00000   .00000   .00000   .00000   .00000

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE   63

                        CALSPAN T14-053   01 T1 S1   1A36   (QUF116)   (14 NOV 73)

        REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   ALPHA = .000   DOPR = 28.310
LREF = 1328.0002 INCHES   YMRP =   .0000 INCHES   DSRMPR = 2.020
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE =   .0190

        MACH =   .900   RN/L = 2.69   GRADIENT INTERVAL = -5.00/ 5.00

	BETA	DCY/B	DCBL/B	DCYN/B	DYAC/L	CY/B	CBL/B	CYN/B	XYAC/L
	.000	-.00173	-.00046	.00138	.00584	-.05330	-.00844	.02633	.73979
GRADIENT		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000

                        CALSPAN T14-053   02 T1 S1   1A36   (AUF015)   (26 SEP 73)

        REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA = .000   MPSRA = .000
LREF = 1328.0002 INCHES   YMRP =   .0000 INCHES   POWER = .000   RUDDER = .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE =   .0190

        RUN NO. 15/ 0   RN/L = 2.82   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.905	-7.760	-.13900	.01160	-.05940	.02440	.05030	.03360	-.45510	.14780	.15130	.18733
.903	-3.790	.00850	.00210	.00980	.02590	.04430	.03220	-.21330	.04830	.05220	.12056
.901	-.010	-.13540	-.01010	.07180	.02420	.03940	.02170	.01360	-.04060	-.03690	.11035
.901	3.700	.24920	-.02850	.12150	.02200	.04460	.02770	.21690	-.11010	-.10690	.10893
.901	7.670	.33070	-.04400	.14950	.01830	.03960	.02260	.40740	-.17070	-.16760	.10422
GRADIENT		.03214	-.00408	.01492	-.00052	.00004	-.00061	.05744	-.02116	-.02125	-.00156

CALSPAN T14-053   02 T1 S1   1A36

(AUF018)   (26 SEP 73

PARAMETRIC DATA

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

BETA = -5.00/ 5.00   MPSRA = .000
POWER =   RUDDER = .000

RUN NO. 18/ 0   RN/L = 2.99   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.200	-8.100	-.19050	-.08270	-.00240	.04490	.11680	.05780	-.53610	.20310	.20980	.23258
1.001	-6.120	-.11360	-.04480	-.00400	.03590	.10850	.04100	-.40070	.15070	.15 70	.23954
1.201	-4.090	-.02020	.00020	.00590	.03840	.09950	.04210	-.26060	.09610	.10200	.24242
		.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000	.00000
	GRADIENT										

CALSPAN T14-053   02 T1 S1   1A36

(AUF019)   (26 SEP 73

PARAMETRIC DATA

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

BETA = -5.00/ 5.00   MPSRA = .000
POWER =   RUDDER = .000

RUN NO. 19/ 0   RN/L = 2.76   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.903	-8.100	-.15340	-.06680	.01310	.02980	.05310	-.04000	-.48880	.15960	.16330	.10779
.901	-6.090	-.07660	-.03110	.00830	.03200	.04960	-.04080	-.35780	.10990	.11310	.11125
.900	-4.090	-.00500	-.00390	.00330	.03180	.04570	-.03810	-.23360	.05880	.06230	.10139
.901	-.010	.12910	.06810	-.01050	.02990	.04140	-.02870	.00100	-.03380	-.03090	.10603
.903	2.010	.19210	.09950	-.01960	.02890	.04320	-.03030	.11790	-.07880	-.07610	.10563
.903	4.030	.25310	.12610	-.02930	.02790	.04450	-.03340	.22760	-.11550	-.11330	.10591
.905	6.020	.27700	.12960	-.03890	.02720	.04270	-.03310	.31090	-.13410	-.13190	.10751
.900	7.990	.33160	.15380	-.04410	.02550	.03890	-.02890	.41510	-.17240	-.17030	.10125
	GRADIENT	.03187	.01518	-.00398	-.00048	-.00017	-.00067	.05699	-.02169	-.02184	.00005

CALSPAN T14-053   02 T1 S1   1A36   (AUF020)   (26 SEP 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

PARAMETRIC DATA

ALPHA =	.000	MPSRA =	.000
POWER =	.000	RUDDER =	.000

RUN NO. 20/ 0   RN/L = 2.81   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNH	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.903	-6.080	.22030	-.03830	.01600	-.00180	.06500	.01990	.00180	-.03870	-.03600	.11425
.900	-3.060	.20100	-.02920	.09500	.01270	.05910	.02110	.00630	-.04040	-.03760	.10080
.902	-2.030	.18450	-.01980	.08720	.02570	.05370	.02820	.00480	-.03830	-.03570	.10992
.898	.000	.13980	-.00990	.06890	.02850	.04170	.02580	.00120	-.03420	-.03110	.11243
.899	3.070	.08500	.00770	.05020	.02240	.02380	.01110	-.00250	-.03530	-.03170	.10914
.898	6.090	.25270	.01800	.03800	.04450	.01430	.01150	-.01630	-.02940	-.02410	.09803
	GRADIENT	-.01921	.00582	-.00738	.00104	-.00579	-.00202	-.00145	.00083	-.00098	.00100

CALSPAN T14-053   02 T1 S1   1A36   (AUF022)   (26 SEP 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

PARAMETRIC DATA

BETA =	.000	MPSRA =	.000
POWER =	.000	RUDDER =	.000

RUN NO. 22/ 0   RN/L = 2.17   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNH	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.178	-8.130	-.19010	-.00270	-.08390	.02900	.11840	.05310	-.54840	.20770	.21280	.33084
1.179	-6.020	-.09640	-.00410	-.03970	.02970	.10850	.04930	-.39460	.14670	.15290	.27825
1.177	-4.060	-.01240	-.00600	.00380	.03080	.09950	.04690	-.25690	.09260	.09920	.25673
1.176	-2.030	.05760	-.00830	.04600	.03040	.09150	.04020	-.12150	.03500	.04160	.26731
1.172	-.010	.14150	-.01080	.08530	.03030	.08530	.02840	.00520	-.01740	-.01090	.27281
1.172	2.050	.21940	-.01310	.12350	.03020	.07900	.01420	.13390	-.06620	-.05980	.28105
1.175	4.050	.26700	-.01210	.15090	.02950	.05880	.00000	.25800	-.11440	-.10740	.25975
1.176	6.020	.33590	-.01500	.18280	.02550	.06100	-.01210	.37480	-.15950	-.15240	.25912
	GRADIENT	.03501	-.00084	.01831	-.00014	-.00365	-.00590	.06331	-.02538	-.02535	.00102

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36) PAGE 55

CALSPAN T14-053 02 T1 S1 1A36 (AUF023) (26 SEP 73)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = .000	RUDDER = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		
SCALE = .0190			

RUN NO. 23/ 0 RN/L = 2.15 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.195	-6.080	.26540	.13660	.02110	-.00610	.10180	.00510	-.00990	-.01590	-.00910	.24852
1.176	-3.060	.22740	.11970	-.01720	-.00260	.09610	.01280	-.00820	-.01470	-.00790	.24749
1.172	-2.030	.19040	.10340	-.01300	.00810	.08930	.02000	.00120	-.01790	-.01100	.24745
1.178	.000	.14480	.08440	-.01120	.02450	.08510	.02620	.00770	-.01830	-.01160	.265:9
1.172	2.030	.06370	.05080	-.00590	.03930	.06840	.03070	-.00360	-.01390	-.00700	.2-6-5
1.175	3.060	.00010	.02670	-.00470	.05740	.04970	.03780	-.01040	-.01210	-.00520	.24766
1.178	6.080	-.04300	.00800	-.00120	.07720	.03750	.04300	-.01610	-.01140	-.00460	.25224
GRADIENT		-.03533	-.01451	.00195	.00916	-.00684	.00364	-.00061	.00060	.00061	-.00043

CALSPAN T14-053 02 T1 S1 1A36 (AUF024) (26 SEP 73)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	BETA = .000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 36.200
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.330	RUDDER = .000
SCALE = .0190			

RUN NO. 24/ 0 RN/L = 2.16 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.137	-8.150	-.19430	-.08440	-.00140	.01800	.11250	.05590	-.53390	.19620	.20210	.23704
1.312	-6.050	-.11970	-.04330	-.00330	.02260	.10500	.05390	-.36290	.13860	.14460	.23370
1.191	-4.100	-.00940	-.00110	-.00480	.01590	.08870	.03920	-.24510	.08300	.08890	.23359
1.199	-2.040	.07400	.04470	-.00750	.0..0	.07810	.02920	-.10650	.02330	.02890	.25056
1.193	-.040	.15120	.06530	-.00980	.01390	.07460	.01900	.01190	-.02460	-.01850	.24730
1.196	1.950	.22200	.12380	-.01250	.01000	.06910	.00160	.14400	-.07610	-.07050	.25569
GRADIENT		.03829	.02050	-.00126	-.00085	-.00325	-.00610	.06391	-.02607	-.02610	.00057

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36) PAGE 67

CALSPAN T14-053 02 T1 S1 1A36 (AUF025) (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	
SCALE = .0190		

PARAMETRIC DATA

ALPHA = .000	MPSRA = .000
POWER = 1.000	OPR = 36.200
SRMPR = 2.330	RUDDER = .000

RUN NO. 25/ 0 RN/L = 2.13 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.183	-6.080	.27370	-.02120	.13710	.00590	.09770	.00530	.00040	-.02610	-.01940	.22869
1.197	.000	.15390	-.00970	.08660	.02060	.07800	.02890	.01540	-.02560	-.02000	.24681
1.195	3.050	.03060	-.00420	.03910	.02310	.04790	.03130	.00350	-.02220	-.01660	.23635
1.170	6.080	-.03020	.00090	.00930	.05700	.02480	.03900	-.00910	-.01690	-.01120	.22621
GRADIENT		-.04043	.00180	-.01557	.00082	-.00987	.00079	-.00390	.00111	.00111	-.00343

CALSPAN T14-053 02 T1 S1 1A36 (AUF026) (26 SEP 73)

REFERENCE DATA

SREF = 2690.3004 FT.SQU	XMRP = 953.0001 INCHES	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	
SCALE = .0190		

PARAMETRIC DATA

BETA =	MPSRA = .000
POWER =	RUDDER = .000

RUN NO. 26/ 0 RN/L = 4.89 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.279	-8.080	-.13930	.01310	-.06480	.01660	.05670	.03500	-.48960	.15880	.16380	.10138
1.278	-4.010	.00620	-.00400	.00750	.01650	.04530	.02980	-.22470	.05330	.05760	.11324
1.280	-.020	.14110	-.00770	.07500	.01550	.03810	.01940	.01670	-.04570	-.04110	.11133
1.281	3.980	.25670	-.03030	.12700	.01390	.04760	.03090	.23990	-.12190	-.11770	.10791
1.281	6.020	.29810	-.04030	.14100	.01360	.04770	.02560	.34090	-.15000	-.14550	.10084
GRADIENT		.03135	-.00429	.01496	-.00033	.00029	.00014	.05815	-.02193	-.02194	-.00067

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 68

                        CALSPAN T14-053   02 T1 S1   1A36   (AUF027)   (26 SEP 73)

        REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP =   953.0001 INCHES   ALPHA =   .000   MPSRA =   .000
LREF = 1328.0002 INCHES   YMPP =   .0000 INCHES   POWER =   .000   RUDDER =   .000
BREF = 1328.0002 INCHES   ZMRP =   400.0000 INCHES
SCALE =   .0190

                        RUN NO. 27/ 0   RN/L = 4.90   GRADIENT INTERVAL = -5.00/ 5.00

MACH   BETA   CNW   CNW   CBW   CHR   CHEI   CHEO   CN   CLMF   CLM   CAF
1.278   -6.080   .23260   -.03830   .10390   .00260   .07040   .03300   .00010   -.03830   -.03380   .10439
1.285   -3.050   .21150   -.02380   .09770   .01790   .05930   .02680   .01350   -.04460   -.04050   .10913
1.279   .000   .15900   -.00750   .07940   .01660   .03760   .02060   .02020   -.04670   -.04230   .10399
1.284   3.050   .10610   .00590   .06000   .01400   .02070   .01650   .01600   -.04660   -.04190   .11215
1.281   6.090   .05530   .02020   .04120   .04510   .00920   .01520   -.00590   -.03330   -.02800   .10423
        GRADIENT -.01728   .00487 -.00618   -.00064   -.00633   -.00169   .00041   -.00033   -.00023   .00050

                        CALSPAN T14-053   02 T1 S1   1A36   (AUF028)   (26 SEP 73)

        REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP =   953.0001 INCHES   BETA =   .000   MPSRA =   .000
LREF = 1328.0002 INCHES   YMPP =   .0000 INCHES   POWER = 1.000   OPR   = 28.310
BREF = 1328.0002 INCHES   ZMRP =   400.0000 INCHES   SRMPR = 2.020   RUDDER =   .000
SCALE =   .0190

                        RUN NO. 28/ 0   RN/L = 4.72   GRADIENT INTERVAL = -5.00/ 5.00

MACH   ALPHA   CNW   CNW   CBW   CHR   CHEI   CHEO   CN   CLMF   CLM   CAF
1.286   -8.110   -.14320   .01330 -.06970   .01660   .05850   .03740   -.48600   .16060   .16680   .12224
1.289   -4.070   .00900   .00580   .00680   .01630   .04620   .02850   -.22520   .05590   .06280   .13834
1.276   -.020   .15190   -.00870   .07730   .01370   .04000   .01680   .02370   -.04701   -.04150   .14103
1.296   4.000   .26340   -.02940   .12670   .01270   .04560   .02990   .24550   -.12460   -.11940   .12787
1.278   5.980   .30800   -.04100   .14430   .01380   .04840   .02120   .34680   -.15250   -.14660   .12746
        GRADIENT .03153   -.00417   .01486   -.00045   -.00008   .00017   .05833   -.02249   -.02258   -.00129

CALSPAN T14-053   02 T1 S1   1A36   (AUF029)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   ALPHA =   .000   MPSRA =   .000
LREF = 1328.0002 INCHES   YMRP =   .0000 INCHES   POWER = 1.000   OPR   = 28.310
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES   SRMPR = 2.020   RUDDER =   .000
SCALE =   .0190

                    RUN NO.   29/ 0   RN/L = 4.15   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CNW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.300	-6.080	.22400	-.04070	.10240	.00070	.07270	.02640	.00090	-.03530	-.02950	.11950
.272	-3.050	.20750	-.02500	.09640	.01550	.06210	.02070	.01550	-.04390	-.03850	.12910
1.286	.000	.15610	-.00830	.07950	.01240	.03930	.01480	.02040	-.04390	-.03820	.13266
1.283	3.060	.11040	.00600	.06120	.01400	.02080	.01070	.01410	-.04290	-.03690	.13195
1.174	6.090	.05350	.02040	.04150	.04640	.00930	.00880	-.00020	-.03470	-.02840	.11969
	GRADIENT	-.01589	.00507	-.00576	-.00025	-.00676	-.00164	-.00023	.00016	.00026	.00347

CALSPAN T14-053   02 T1 S1   1A36   (AUF030)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA   =   .000   MPSRA = 30.000
LREF = 1328.0002 INCHES   YMRP =   .0000 INCHES   POWER =   .000   RUDDER =   .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE =   .0190

                    RUN NO.   30/ 0   RN/L = 2.12   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.205	-8.100	-.20270	-.00250	-.08350	.04590	.11720	.05290	-.54750	.20760	.21360	.28243
1.178	-4.030	-.02940	-.00590	-.00300	.04550	.09840	.04740	-.25470	.09320	.09920	.27287
1.205	3.980	.24410	-.01220	.14860	.04080	.06820	-.00050	.24900	-.11010	-.10360	.27519
1.206	6.010	.31060	-.01470	.18050	.03820	.05960	-.01270	.37280	-.15810	-.15190	.24898
	GRADIENT	.03414	-.00079	.01818	-.00059	-.00377	-.00598	.06288	-.02738	-.02532	.00029

CALSPAN T14-053   02 T1 S1   1A36   (AUF031)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP =   953.0001 INCHES   ALPHA =   .000   MPSRA =   30.000
LREF = 1328.0002 INCHES   YMRP =   .0000 INCHES   POWER =   .000   RUDDER =   .000
BREF = 1328.0002 INCHES   ZMRP =   400.0000 INCHES
SCALE =   .0190

RUN NO. 31/ 0   RN/L =   2.10   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.204	-6.080	.26520	.13620	-.02140	-.00550	.10060	.00740	-.00890	-.01480	-.00860	.24390
1.204	-3.050	.21290	.11230	-.01570	-.00950	.09240	.01760	-.00360	-.01470	-.00860	.24067
1.203	.000	.14090	.08350	-.01140	.03600	.08310	.02730	.00910	-.01810	-.01210	.25048
1.203	3.050	.02760	.03890	-.00580	.06560	.05840	.03460	-.00560	-.01240	-.00640	.23782
1.202	6.080	-.04550	.00770	-.00080	.09810	.03960	.04320	-.01410	-.01100	-.00450	.23677
GRADIENT		-.03038	-.01203	.00162	.00920	-.00557	.00279	-.00033	.00038	.00036	-.00047

CALSPAN T14-053   02 T1 S1   1A36   (AUF033)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = *690.0004 FT.SQU   XMRP =   953.0001 INCHES   ALPHA =   .000   MPSRA =   30.000
LREF = 1328.0002 INCHES   YMRP =   .0000 INCHES   POWER =   1.000   OPR   =   36.200
BREF = 1328.0002 INCHES   ZMRP =   400.0000 INCHES   SRMPR =   2.330   RUDDER =   .000
SCALE =   .0190

RUN NO. 33/ 0   RN/L =   2.12   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.197	-6.080	.27800	.13780	-.02140	.00470	.09900	.00300	-.00110	-.02240	-.01550	.24188
1.200	-3.040	.22480	.11520	-.01510	.02500	.08780	.01260	.00990	-.02500	-.01870	.25102
1.198	.000	.14950	.08660	-.01080	.03020	.07710	.02080	.02180	-.02780	-.02190	.25852
1.195	3.050	.03070	.03890	-.00450	.04160	.04540	.02710	.00010	-.01740	-.01150	.24389
1.205	6.080	-.02870	.01080	.00020	.07930	.03000	.03250	-.00590	-.01760	-.01170	.24039
GRADIENT		-.03188	-.01253	.00174	.00273	-.00695	.00238	-.00161	.00125	.00118	-.00117

CALSPAN T14-053　　02 T1 S1　　1A36　　　　　(AUF034)　(26 SEP 73)

REFERENCE DATA　　　　　　　　　　　　　　　　　　PARAMETRIC DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES	BETA =	.000	MPSRA =	30.300
LREF =	1328.0002 INCHES	YMRP =	.0030 INCHES	POWER =	1.000	OPR =	36.200
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES	SRMPR =	2.330	RUDDER =	.000
SCALE =	.0190				

RUN NO.　34/ 0　　RN/L = 2.02　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNJ	CHJ	CBH	CHR	CHEI	CHEO	CN	CLHF	CLM	CAF
1.198	-8.180	-.20680	-.00190	-.08570	.03670	.11260	.05500	-.53310	.19800	.20370	.24259
1.197	-4.140	-.02850	-.00500	.00020	.03060	.09030	.04300	-.24310	.08500	.09050	.25326
1.194	-.050	.14320	-.01080	.08810	.03060	.07590	.02480	.01610	-.02390	-.01800	.25710
.758	3.980	.27270	-.01130	.15390	.02780	.05940	-.00420	.26150	-.11760	-.11160	.25588
1.202	6.040	.34670	-.01360	.18760	.02540	.04940	-.01780	.38190	-.16400	-.15820	.25282
GRADIENT		.03711	-.00078	.01893	-.00034	-.00380	-.00581	.06215	-.02495	-.02489	.00032

CALSPAN T14-053　　02 T1 S1　　1A36　　　　　(AUF035)　(26 SEP 73)

REFERENCE DATA　　　　　　　　　　　　　　　　　　PARAMETRIC DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.000; INCHES	BETA =	.000	MPSRA =	30.300
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES	POWER =	.000	RUDDER =	.000
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES			
SCALE =	.0190				

RUN NO.　35/ 0　　RN/L = 2.76　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNJ	CHJ	CBH	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.900	-8.110	-.14390	.01220	-.06580	.02040	.05590	.02980	-.49160	.16150	.16600	.10560
.895	-4.060	.00430	.00280	.00620	.02160	.04610	.02650	-.23170	.05890	.05310	.11430
.901	.010	.13980	-.00900	.07250	.01690	.03890	.01520	-.02040	-.04530	-.04150	.11492
.899	4.030	.25590	-.03070	.12630	.01690	.04640	.02470	.24480	-.12270	-.11890	.11200
.902	6.000	.29790	-.04070	.14060	.01600	.04730	.02120	.33510	-.14550	-.14300	.11077
GRADIENT		.03110	-.00414	.01495	-.00058	.00003	-.00023	.05691	-.02245	-.02250	-.00028

CALSPAN T14-053   02 T1 S1   1A36   (AUF036)   (26 SEP 73)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	BETA = .000	MPSRA = 30.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.020	RUDDER = .000
SCALE = .0190			

RUN NO. 36/ 0   RN/L = 2.70   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CNW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.899	-8.120	-.15080	.01240	-.07020	.02330	.06010	.03720	-.48980	.16350	.16990	.11585
.898	-4.040	-.0037?	.00280	.00550	.0214C	.04810	.02590	.22620	.05840	.06430	.12797
.902	.030	.14510	-.00770	.07780	.02050	.03740	.01690	.01850	-.04130	-.03560	.13151
.908	4.000	.25730	.03110	.12840	.01990	.04860	.02840	.24840	-.12600	-.12050	.13021
.901	6.020	.29420	-.04100	.14100	.01890	.05060	.01880	.34360	-.15110	-.14560	.12439
	GRADIENT	.03248	-.00421	.01530	-.00019	.00005	.00030	.05903	-.02294	-.02300	.00028

CALSPAN T14-053   02 T1 S1   1A36   (AUF037)   (26 SEP 73)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000	MPSRA = 30.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPN = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.020	RUDDER = .000
SCALE = .0190			

RUN NO. 37/ 0   RN/L = 2.72   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CNW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.897	-5.080	.22310	-.04230	.10280	.00320	.07310	.02780	.00000	-.03440	-.02900	.12441
.900	-3.050	.20050	-.02670	.09520	.01730	.06260	.01960	.01270	-.04050	-.03530	.12932
.901	.000	.14510	-.02920	.07490	.01910	.04080	.01520	.01520	-.03960	-.03440	.13224
.897	3.050	.11380	.00470	.06170	.02610	.02230	.01090	.01590	-.04280	-.03670	.12437
.893	6.090	.05320	.02040	.04190	.05580	.00880	.00300	.00350	-.03450	-.02810	.12705
	GRADIENT	-.01421	.00515	-.00549	.00144	-.00661	-.00143	.00052	-.00038	-.00023	-.00081

CALSPAN T14-053   02 T1 S1   1A36   (AUF038)   (26 SEP 73)

REFERENCE DATA			PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		ALPHA = .000	MPSRA = 30.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		POWER = .000	RUDDER = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0003 INCHES			
SCALE = .0190				

RUN NO. 38/ 0   RN/L = 2.75   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNH	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.904	-6.080	.22770	.10530	-.04020	-.00230	.06820	.02690	.00860	-.04060	-.03690	.11432
.900	-3.050	.20440	.03590	-.02530	.01450	.05820	.02160	.01950	-.04470	-.04150	.12095
.901	.000	.14460	.07730	.00950	.01800	.03680	.01310	.02110	-.04410	-.04030	.13222
.901	3.050	.10940	.06290	.00560	.01680	.01850	.00840	.01440	-.04340	-.03310	.12740
.901	6.090	.05710	.04400	.01960	.04590	.00710	.00650	-.00070	-.03250	-.02790	.12536
SCI	GRADIENT	-.01557	-.00557	.00507	.00038	-.00651	-.00216	-.00085	.00021	.00039	.00105

CALSPAN T14-053   02 T1 S1   1A3E   (AUF040)   (26 SEP 73)

REFERENCE DATA			PARAMETRIC DATA	
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		BETA = .000	MPSRA = 50.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		POWER = .000	RUDDER = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES			
SCALE = .0190				

RUN NO. 40/ 0   RN/L = 2.13   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNH	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.203	-8.090	-.21690	-.09310	-.00260	.03520	.11720	.04160	-.58200	.22030	.22600	.23584
1.204	-4.020	-.03130	-.00430	-.00600	.03470	.09920	.03500	-.26990	.09910	.10470	.25467
1.205	-.020	.13820	.08350	-.01120	.03290	.08330	.01690	.00930	-.01800	-.01240	.25987
1.203	4.010	.27400	.15370	-.01250	.03110	.06720	-.01350	.26750	-.11660	-.11080	.25433
1.204	6.020	.34550	.18790	-.01520	.02830	.05690	-.02660	.39550	-.16730	-.16110	.25224
	GRADIENT	.03801	.01967	-.00081	-.00045	-.00399	-.00604	.06692	-.02686	-.02683	-.00004

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CALSPAN T14-053   02 T1 S1   1A36   (AUF041)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

| ALPHA | = | .000 | MPSRA | = | 60.000 |
| POWER | = | .000 | RUDDER | = | .000 |

RUN NO. 41/ 0   RN/L = 2.12   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.201	-6.080	.26680	-.02110	.13790	-.00160	.10480	.01000	-.01070	-.01480	-.00900	.28173
1.201	-3.050	.21220	-.01550	.11270	.01390	.09480	.02220	-.00120	-.01610	-.01020	.27536
1.202	3.050	.03110	-.00560	.03880	.07250	.05800	.04110	-.00810	-.01190	-.00590	.28623
1.202	6.080	-.03920	-.00080	.00860	.10400	.03710	.04940	-.01150	-.01330	-.00690	.26060
GRADIENT		-.02969	.00162	-.0121	.00961	-.00603	.00310	-.00113	.00069	.00070	.00178

CALSPAN T14-053   02 T1 S1   1A36   (AUF042)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

CETA	=	.000	MPSRA	=	60.000
POWER	=	1.000	OPR	=	35.200
SRMPR	=	2.330	RUDDER	=	.000

RUN NO. 42/ 0   RN/L = 2.04   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.201	-8.090	-.19950	-.00160	-.08350	.04260	.11210	.06390	-.52400	.19730	.20270	.27508
1.196	-4.070	-.02300	-.00510	.00230	.04480	.09340	.05850	-.24090	.08370	.08920	.26357
1.194	-.050	.14090	-.01040	.08540	.04190	.08020	.04060	.01340	-.02400	-.01850	.25973
1.199	5.030	.25370	-.01140	.14900	.03700	.06430	.00790	.24610	-.11010	-.10450	.26318
1.201	5.990	.32040	-.01340	.18120	.03280	.05400	-.00280	.36240	-.15530	-.14980	.26206
GRADIENT		.03414	-.00078	.01810	-.00096	-.00359	-.00625	.06012	-.02392	-.02391	-.00005

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 75

CALSPAN T14-053   02 T1 S1   1A36   (AUF043)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		
SCALE = .0190			

PARAMETRIC DATA

ALPHA = .000	MPSRA = 60.000	
POWER = 1.000	OPR = 36.200	
SRMPR = 2.330	RUDDER = .000	

RUN NO. 43/ 0   RN/L = 2.05   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.194	-6.070	.27280	-.02160	.13980	.00150	.10110	.00680	.00070	-.02240	-.01610	.24355
1.194	-3.050	.22070	-.01540	.11480	.02090	.09120	.02020	.00850	-.02290	-.01680	.25447
1.194	.000	.15020	-.01040	.08560	.03010	.07880	.03060	.01650	-.02440	-.01890	.26496
1.193	3.050	-.02420	-.00440	.03900	.03660	.04530	.03230	.00160	-.01930	-.01380	.24921
1.196	6.080	-.03800	.00100	.00910	.07480	.02580	.03780	-.00550	-.01810	-.01250	.24589
	GRADIENT	-.03221	.00180	-.01259	.00257	-.00752	.00198	-.00113	.00059	.00049	-.00086

CALSPAN T14-053   02 T1 S1   1A36   (AUF044)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		
SCALE = .0190			

PARAMETRIC DATA

BETA = .000	MPSRA = 60.000	
POWER = 1.000	OPR = 28.310	
SRMPR = 2.020	RUDDER = .000	

RUN NO. 44/ 0   RN/L = 2.68   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.900	-8.080	-.14980	.01240	-.06560	.02160	.05730	.03800	-.47640	.15770	.16420	.11216
.895	-4.050	-.00600	.00160	.00400	.02540	.05180	.03770	-.22400	.05870	.06480	.11809
.898	-.040	.13810	-.00780	.07640	.02340	.03920	.02540	.01960	-.04380	-.03830	.12531
.896	3.970	.24710	-.03160	.12740	.02040	.05190	.03000	.24350	-.12460	-.11920	.12371
.907	6.010	.28160	-.04090	.13810	.02070	.05380	.02760	.34170	-.15280	-.14770	.13446
	GRADIENT	.03156	-.00414	.01539	-.00062	.00001	-.00096	.05929	-.02286	-.02294	-.00070

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)   PAGE 76

CALSPAN T14-053   02 T1 S1   IA36   (AUF045)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	
SCALE = .0190		

PARAMETRIC DATA

ALPHA = .000	MPSRA =	60.000
POWER = 1.000	OPR =	28.310
SRMPR = 2.020	RUDDER =	.000

RUN NO. 45/ 0   RN/L = 2.73   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.897	-6.080	.20680	-.04160	.03940	.00550	.07550	.03220	-.00390	-.03320	-.02780	.12110
.899	-3.050	.19720	-.02670	.03470	.02340	.06550	.03030	.01210	-.04100	-.03580	.12745
.898	.000	.14260	-.00840	.07570	.02460	.04180	.02510	.01740	-.04440	-.03890	.12981
.898	3.050	.10680	.00640	.06120	.03240	.02250	.01870	.01340	-.04350	-.03740	.12725
.900	6.030	.04420	.02170	.03950	.06260	.01050	.01200	-.00750	-.02920	-.02270	.12635
	GRADIENT	-.01482	.00543	-.00549	.00148	-.00705	-.00190	.00021	-.00041	-.00026	-.00003

CALSPAN T14-053   02 T1 S1   IA36   (AUF046)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	
SCALE = .0190		

PARAMETRIC DATA

ALPHA = .000	MPSRA =	60.000
POWER = .000	RUDDER =	.000

RUN NO. 46/ 0   RN/L = 2.77   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.898	-6.080	.21600	-.04000	.10230	.00450	.07190	.03750	.00110	-.03870	-.03420	.10510
.902	-3.050	.20040	-.02460	.09710	.02170	.06150	.03170	.01110	-.04170	-.03790	.11995
.899	.000	.14700	-.00830	.07670	.02510	.03990	.02620	.01700	-.04400	-.03970	.11635
.901	3.060	.10840	.00660	.06270	.02270	.02020	.01830	.01320	-.04370	-.03950	.12245
.900	6.090	.05620	.02050	.04310	.05440	.00940	.01640	-.00590	-.03100	-.02610	.11455
	GRADIENT	-.01506	.00511	-.00563	.00016	-.00676	-.00219	-.00034	-.00033	-.00026	.00041

CALSPAN T14-053   02 T1 S1   1A36

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES
SCALE = .0190	

PARAMETRIC DATA

(AUF047) (26 SEP 73)

BETA =	.000	MPSRA =	60.000
POWER =	.000	RUDDER =	.000

RUN NO. 47/ 0   RN/L = 2.75   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.902	-8.070	-.13670	.01300	-.06020	.02980	.05510	.04150	-.47350	.15470	.15890	.11613
.900	-4.090	-.00130	.00380	.00480	.02910	.04600	.03840	-.22800	.05730	.06150	.11660
.899	.050	.14210	-.00800	.07690	.02720	.03850	.02880	.02000	-.04510	-.04110	.11799
.897	4.010	.24950	-.03040	.12570	.02560	.04920	.03750	.23590	-.11930	-.11540	.11140
.900	5.980	.28400	-.04040	.13570	.02420	.05230	.03390	.32450	-.14320	-.13940	.11536
GRADIENT		.53099	-.00421	.01494	-.00043	.00038	-.00013	.05734	-.02182	-.02186	-.00063

CALSPAN T14-053   02 T1 S1   1A36

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES
SCALE = .0190	

PARAMETRIC DATA

(AUF048) (26 SEP 73)

BETA =	.000	MPSRA =	90.000
POWER =	.000	RUDDER =	.000

RUN NO. 48/ 0   RN/L = 2.13   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.200	-8.110	-.19120	-.00290	-.08090	.03640	.11770	.04940	-.53290	.20240	.20810	.29309
1.200	-4.060	-.01630	-.00510	.00310	.03740	.09890	.04590	-.24920	.09120	.09700	.30708
1.201	-.020	.13710	-.01100	.08340	.03620	.08500	.02810	.00820	-.01710	-.01120	.30390
1.202	4.010	.25750	-.01170	.14640	.03550	.07020	.00150	.24640	-.10830	-.10220	.30095
1.200	6.010	.32270	-.01450	.17710	.03320	.06010	-.00810	.36290	-.15400	-.14780	.29764
GRADIENT		.03393	-.00069	.01776	-.00024	-.00356	-.00550	.06141	-.02472	-.02468	-.00076

CALSPAN T14-053   02 T1 S1   1A36   (AUF049)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

ALPHA	=	.000	MPSRA	=	90.000
POWER	=	.000	RUDDER	=	.000

RUN NO. 49/ 0   RN/L = 2.12   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.201	-6.0..	.26120	.13330	-.02140	-.01120	.09940	.00910	-.01040	-.01170	-.00580	.28306
1.202	-3.050	.20380	.10920	-.01560	.00440	.09090	.01820	-.00370	-.01200	-.00610	.28721
1.205	.000	.13830	.08190	-.01180	.03230	.08500	.02740	-.00760	-.01600	-.01000	.28689
1.199	3.050	.03290	.03840	-.00570	.06080	.06270	.03560	-.00840	-.00880	-.00250	.28196
1.201	6.080	-.04180	.00950	-.00160	.09320	.04140	.04490	-.01780	-.00750	-.00090	.26416
GRADIENT		-.32802	-.01161	.00162	.00925	-.00462	.00285	-.00077	.00052	.00059	-.00086

CALSPAN T14-053   02 T1 S1   1A36   (AUF050)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

BETA	=	.000	MPSRA	=	90.000
POWER	=	1.000	OPR	=	36.200
SRMPR	=	2.330	RUDDER	=	.000

RUN NO. 50/ 0   RN/L = 2.04   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.193	-8.100	-.19560	-.08160	-.00170	.03040	.10700	.04980	-.51300	.19030	.19630	.25399
1.198	-4.070	-.01450	.00510	-.00510	.03170	.08930	.04740	-.23800	.08720	.09250	.27509
1.201	-.040	.13980	.08500	-.00980	.03110	.07750	.02880	.01360	.01900	-.01390	.28525
1.192	3.970	.25860	.14770	-.00190	.01800	.06050	.00310	.26010	-.11850	-.11260	.25749
1.190	6.020	.32910	.18190	-.01320	.01430	.05180	-.01360	.37060	-.16000	-.15430	.25693
GRADIENT		.03397	.01774	-.00085	-.00170	-.00358	-.00628	.06195	-.02559	-.02551	-.00219

CALSPAN T14-053   02 T1 S1   1A36   (AUF051)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

ALPHA	=	.000	MPSRA	=	90.000
POWER	=	1.000	OPR	=	36.200
SRMPR	=	2.330	RUDDER	=	.000

RUN NO. 51/ 0   RN/L = 2.00   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.190	-6.070	.27820	-.02170	.13850	.00310	.09890	.00950	-.00480	-.01890	-.01300	.24557
1.182	-3.040	.21970	-.01550	.11300	.01700	.08550	.01600	.00910	-.02510	-.01910	.24616
1.190	.000	.14640	-.01060	.08420	.01960	.07540	.02560	.01760	-.02560	-.02010	.25740
1.188	3.050	.02820	-.00420	.03020	.02900	.04390	.03020	.00150	-.02040	-.01460	.24491
1.195	6.080	-.03370	.00120	.00920	.05820	.02350	.03560	-.00660	-.01720	-.01170	.24253
GRADIENT		-.03145	.00187	-.01228	.00197	-.00683	.00233	-.00125	.00077	.00074	-.00021

CALSPAN T14-053   02 T1 S1   1A36   (AUF052)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

BETA	=	.000	MPSRA	=	90.000
POWER	=	.000	RUDDER	=	.000

RUN NO. 52/ 0   RN/L = 2.74   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.916	-8.090	-.13430	.01180	-.05140	.01680	.05680	.03360	-.47580	.15370	.15890	.10302
.901	-4.040	.00610	.00380	.00720	.01680	.04470	.02830	-.22210	.05350	.05800	.11501
.901	.000	.14380	-.00840	.07660	.01510	.03890	.02010	.02130	-.04690	-.04260	.11114
.903	4.000	.25390	-.03040	.12510	.01360	.04830	.02970	.23690	-.12070	-.11670	.11225
.915	5.990	.28600	-.04070	.13480	.01300	.05100	.02480	.32860	-.14550	-.14150	.10351
GRADIENT		.03083	-.00425	.01467	-.00040	.00044	.00017	.05709	-.02167	-.02173	-.00034

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CALSPAN T14-053   02 T1 S1   1A36   (26 SEP 73)

REFERENCE DATA   (AUF053)

				PARAMETRIC DATA		
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES			ALPHA = .000	MPSRA =	90.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES			POWER = .000	RUDDER =	.000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES					
SCALE = .0190						

RUN NO. 53/ 0   RN/L = 2.72   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.903	-6.080	.23000	-.03950	.10340	-.00500	.05950	.01910	.00090	-.03770	-.03350	.11027
.903	-3.050	.20880	-.02480	.09620	.01080	.05870	.01330	.01330	-.04280	-.03920	.11817
.904	.000	.15660	-.00720	.07670	.01070	.03480	.00700	.01800	-.04340	-.03970	.12834
.902	3.050	.11810	.00570	.06350	.00780	.01820	.00030	.01490	-.04490	-.04060	.12195
.901	6.090	.06420	.02050	.04210	.03930	.00700	.00180	-.00440	-.03270	-.02790	.11077
	GRADIENT	-.01487	.00500	-.00536	-.00049	-.00664	-.00213	-.00026	-.00034	-.00023	.00062

CALSPAN T14-053   02 T1 S1   1A36   (26 SEP 73)

REFERENCE DATA   (AUF054)

				PARAMETRIC DATA		
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES			BETA = .000	MPSRA =	90.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES			POWER = 1.000	OPR =	28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES			SRMPR = 2.020	RUDDER =	.000
SCALE = .0190						

RUN NO. 54/ 0   RN/L = 2.67   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.899	-8.100	-.14550	.01120	-.06440	.01360	.05920	.03600	-.47350	.15690	.16320	.11513
.903	-4.020	-.00130	.00370	-.00480	.01420	.04790	.02730	-.21880	.05460	.06000	.13583
.904	.020	.13730	-.00780	.07680	.01030	.03940	.01850	.03600	-.05980	-.05350	.12919
.900	4.060	.24300	-.03050	.12520	.00940	.04980	.02470	.25160	-.13090	-.12590	.12686
1.030	6.060	.28000	-.04130	.13830	.00840	.05310	.01790	.35320	-.16150	-.15530	.12371
	GRADIENT	.03024	-.00423	.01490	-.00059	.00024	-.00032	.05822	-.02296	-.02301	-.00086

CALSPAN T14-053   02 T1 S1   IA36   (AUF055)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000 MPSRA = 90.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000 OPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.020 RUDDER = .000
SCALE = .0190		

RUN NO. 55/ 0   RN/L = 2.59   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.898	-6.050	.21230	-.04200	.10040	.00190	.07490	.03010	.00190	-.03730	-.03200	.12568
1.006	-3.050	.19810	-.02750	.09470	.01500	.06520	.02460	.01540	-.04350	-.03840	.12616
.899	.000	.14010	-.00860	.07470	.01050	.04190	.01770	.02130	-.04630	-.04120	.13422
.898	3.050	.10480	.00590	.06010	.01080	.02260	.01080	.01350	-.04330	-.03800	.13341
.099	6.080	.05230	.02020	.04080	.04210	.01050	.00830	-.00640	-.03020	-.02430	.12654
	GRADIENT	-.01530	.00548	-.00567	-.00069	-.00698	-.00226	-.00031	.00003	.00007	.00119

CALSPAN T14-053   02 T1 S1   IA36   (AUF059)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SOU	XMRP = 953.0001 INCHES	BETA = .000 MPSRA = 120.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000 OPR = 36.200
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.330 RUDDER = .000
SCALE = .0190		

RUN NO. 59/ 0   RN/L = .18   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.196	-8.110	-.20000	-.00130	-.08440	.04680	.10660	.04850	-.51390	.19150	.19710	.26655
1.200	-4.060	-.01900	-.00490	.00300	.04390	.09010	.04480	-.24440	.09160	.09650	.29614
1.198	.020	.13420	-.06990	.08460	.04140	.07620	.02630	.02340	-.02830	-.02330	.28433
1.205	4.090	.25510	-.01050	.1472	.03830	.06230	-.00040	.25350	-.11450	-.10940	.28819
1.203	6.030	.32320	-.01330	.1776	.03420	.05400	-.01190	.36470	-.15870	-.15310	.27884
	GRADIENT	.03363	-.00069	.0177	-.00069	-.00341	-.00555	.06109	-.02529	-.02527	-.00098

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 82

CALSPAN T14-053   02 T1 S1   1A36   (AUF060)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

ALPHA = .000	MPSRA = 120.000
POWER = 1.000	OPR = 35.200
SRMPP = 2.330	RUDDER = .000

RUN NO. 60/ 0   RN/L = 2.08   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.195	-6.080	.27090	-.02200	.13760	.00120	.09490	-.00240	.00490	-.02320	-.01730	.25471
1.202	-3.050	.21180	-.01480	.11010	.01920	.08650	.01240	-.00060	-.01730	-.01160	.25959
1.199	.000	.14180	-.01040	.08430	.03460	.07470	.01880	-.02080	-.02440	-.01950	.25995
1.198	3.050	.03090	-.00360	.03990	.04320	.04810	.02310	.00200	-.01710	-.01130	.25335
1.198	6.080	-.03930	.00100	.00930	.08060	.02710	.03080	-.00650	-.01650	-.01070	.24526
1.19?	GRADIENT	-.02966	.00184	-.01151	.00393	-.00630	.00175	.00043	-.00003	.00005	-.00102

CALSPAN T14-053   02 T1 S1   1A36   (AUF061)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

ALPHA = .000	MPSRA = 120.000
POWER = .000	RUDDER = .000

RUN NO. 61/ 0   RN/L = 2.05   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.203	-6.080	.27340	-.02140	.13550	-.00760	.09760	.00140	-.00710	-.01340	-.00730	.25480
1.204	-3.050	.21990	-.01510	.11?50	.00670	.08980	.01220	-.00130	-.01350	-.00740	.25583
1.201	.000	.14790	-.01110	.08340	.03270	.08100	.02250	-.01290	-.01830	-.01240	.26395
1.???	3.050	.02870	-.00480	.03850	.06250	.05660	.02970	-.00410	-.01130	-.00540	.25?50
1.205	6.080	-.04230	-.00050	.00940	.09560	.03820	.03740	-.00930	-.01190	-.00570	.24?99
	GRADIENT	-.03118	.00169	-.01197	.00915	-.00544	.00287	-.00046	.00036	.00033	.00027

CALSPAN T14-053   02 TI SI   IA36   (AUF062)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

BETA	=	.000	MPSRA	=	120.000
POWER	=	.000	RUDDER	=	.000

RUN NO. 62/ 0   RN/L = 2.10   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.203	-8.070	-.19490	-.00210	-.08070	.03770	.11400	.04720	-.52880	.20090	.20690	.25498
1.204	-4.040	-.01810	-.00570	.00370	.03790	.09500	.04260	-.24550	.09090	.09650	.26219
1.205	-.020	.14010	-.01060	.0840C	.03520	.08110	.02360	.01240	.01800	.01240	.26383
1.201	4.010	.26650	-.01550	.15180	.02870	.06650	.01000	.25270	-.10960	-.10370	.25652
1.203	6.030	.31410	-.01480	.17480	.02690	.05670	-.02240	.36360	-.15300	-.14690	.25137
GRADIENT		.03535	.00122	.01840	-.00114	-.00354	-.00653	.06190	-.02491	-.02487	-.00070

CALSPAN T14-053   02 TI SI   IA36   (AUF063)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

BETA	=	.000	MPSRA	=	120.000
POWER	=	1.000	OPR	=	28.310
SRMPR	=	2.020	RUDDER	=	.000

RUN NO. 63/ 0   FJ/L = 2.65   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.900	-8.120	-.14330	.01260	-.06380	.02210	.05590	.02940	-.47240	.15620	.16220	.11923
.898	-4.010	.00000	.00240	.00730	.02300	.04730	.02280	-.22350	.06050	.06520	.12093
.900	.040	.13910	-.00900	.07520	.02010	.04030	.01000	.02250	-.04650	-.04120	.12794
.899	4.090	.25510	-.03070	.12670	.01490	.04860	.02180	.21540	-.12600	-.12080	.11844
.896	6.040	.28550	-.04020	.13570	.01460	.04820	.01630	.33870	-.15200	-.14680	.11781
GRADIENT		.03149	-.00409	.01474	-.00100	.00016	-.00012	.05789	-.02302	-.02309	-.00030

CALSPAN T14-053   02 T1 S1   1A36

(AUF064)   (26 SEP 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA =	.000	MPSRA = 120.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER =	1.000	OPR = 29.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR =	2.020	RUDDER = .000
SCALE = .0190			

RUN NO. 64/0   RN/L = 2.71   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CBW	CNJ	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.903	-6.080	.22290	.10240	-.03880	-.00040	.06630	.02350	.00350	-.03840	-.03480	.11044
.904	-3.050	.20100	.09570	-.02500	.01690	.06130	.01770	.01600	-.04130	-.03660	.13388
.899	.000	.13320	.07290	-.00930	.01260	.03960	.00620	.02300	-.04560	-.04050	.13107
.901	3.050	.10530	.05930	.00630	.01860	.01820	.00340	.01300	-.04080	-.03520	.13040
.902	6.090	.04820	.03940	.02040	.05030	.00840	.00330	-.00280	-.03080	-.02470	.12727
GRADIENT		-.01569	-.00597	.00513	.00028	-.00707	-.00230	-.00049	.00008	.00023	-.00057

CALSPAN T14-053   02 T1 S1   1A36

(AUF065)   (26 SEP 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA =	.000	MPSRA = 120.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER =	.000	RUDDER = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES			
SCALE = .0190			

RUN NO. 65/0   RN/L = 2.74   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CBW	CNJ	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.904	-6.080	.22290	.10250	-.03880	-.00010	.06660	.02430	.00540	-.03880	-.03550	.11065
.902	-3.050	.20220	.09960	-.02470	.01370	.05690	.01840	.01160	-.04060	-.03740	.11349
.904	.000	.14870	.07510	-.00790	.01580	.03620	.01090	.01980	-.04410	-.04060	.11945
.901	3.050	.10600	.05910	.00450	.01270	.02100	.00290	.01400	-.04380	-.03990	.12222
.903	6.090	.05500	.04060	.01960	.03940	.00900	.00130	-.00240	-.03230	-.02820	.11878
GRADIENT		-.01577	-.00582	.00479	-.00016	-.00589	-.00254	.00052	-.00052	-.00041	.00143

CALSPAN T14-053   02 T1 S1   1A36   (AUF068)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	BETA = .000	MPSRA = 120.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = .000	RUDDER = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		
SCALE = .0190			

RUN NO. 66/ 0   RN/L = .24   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHE1	CHEO	CN	CLMF	CLM	CAF
.903	-8.050	-.12480	.01270	-.05990	.01720	.05130	.02420	-.46760	.15160	.15550	.11573
.903	-4.040	.01400	.00380	.00910	.01660	.04160	.01850	-.21770	.05250	.05630	.12006
.901	.020	.14040	-.00900	.07330	.01450	.03720	.00740	.01820	-.04250	-.03890	.12065
.901	3.990	.25500	-.03030	.1251	.01250	.04550	.01870	.23400	-.11880	-.11550	.11552
.900	6.040	.28350	-.03940	.13320	.01140	.04350	.01360	.32730	-.14450	-.14110	.10900
	GRADIENT	.13002	-.00424	.01445	-.00051	.00048	.00001	.05626	.02134	-.02140	-.00056

CALSPAN T14-053   02 T1 S1   1A36   (AUF071)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	BETA = .000	MPSRA = 150.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = .000	RUDDER = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		
SCALE = .0190			

RUN NO. 71/ 0   RN/L = 2.76   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHE1	CHEO	CN	CLMF	CLM	CAF
.904	-8.130	-.12680	.01210	-.06090	.02270	.05260	.02070	-.47310	.15600	.16010	.12407
.905	-4.050	.01230	.00310	-.00860	.02140	.04280	.01370	-.22220	.05510	.05900	.12036
.903	.020	.14050	-.00940	.07130	.01880	.03780	.00270	.01230	-.03720	-.03360	.12312
.903	4.020	.25510	-.02990	.12360	.01680	.04500	.01440	.23000	-.11560	-.11220	.11697
.901	6.010	.29140	-.03980	.13560	.01560	.04550	.01100	.32470	-.14330	-.13980	.10940
	GRADIENT	.03009	-.00409	.01425	-.00057	.00027	.00008	.05604	.02116	-.02122	-.00042

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CALSPAN T14-053 02 T1 S1 1A36 (AUF072) (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES YMRP = .0000 INCHES
BREF = 1328.0002 INCHES ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

ALPHA =   MPSRA = 150.000
POWER =   RUDDER = .000

RUN NO. 72/ 0 RN/L = 2.74 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.904	-6.080	.22880	.10180	-.03860	-.00120	.06700	.01610	.00470	-.03840	-.03490	.11485
.901	-3.050	.20140	.09050	-.02570	.01490	.05760	.01160	.00960	-.03860	-.03540	.11962
.904	.000	.15080	.07170	-.00960	.01970	.03900	.00370	.00970	-.03610	-.03240	.11997
.902	3.050	.11020	.05860	.00540	.02120	.02060	-.00010	.00730	-.03890	-.03470	.11920
.902	6.090	.06160	.04060	.02030	.04780	.00780	-.00050	-.00940	-.02940	-.02480	.10705
GRADIENT		-.01495	-.00523	.00510	.00103	-.00607	-.00192	-.00038	-.00005	.00011	-.00005

CALSPAN T14-053 02 T1 S1 1A36 (AUF073) (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES YMRP = .0000 INCHES
BREF = 1328.0002 INCHES ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

BETA =   MPSRA = 150.000
POWER =   OPR = 28.310
SRMPR =   RUDDER = .000

RUN NO. 73/ 0 RN/L = 2.67 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.902	-8.010	-.14230	-.06420	.01160	.02570	.05770	.03520	-.47020	.15640	.16250	.11767
.902	-4.040	-.00190	.00550	.00230	.02310	.04840	.02380	-.22370	.05830	.06390	.12525
.900	.000	.13210	.07170	-.01000	.02300	.04350	.01350	.02160	-.04500	-.03990	.12129
.905	4.040	.24800	.12510	-.03040	.220	.05200	.02800	.24190	-.12350	-.11870	.1334+
.902	6.020	.28410	.13550	-.04040	.02270	.05150	.02320	.34020	-.15300	-.14790	.1257+
GRADIENT		.03093	.01480	-.00405	-.00011	.00020	.00052	.05762	-.02250	-.02260	.00052

CALSPAN T14-053   02 T1 S1   1A36   (AUF074)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000 MPSRA = 150.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000 QPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.020 RUDDER = .000
SCALE = .0190		

RUN NO. 74/ 0   RN/L = 2.69   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.902	-6.080	.21410	-.04080	.10050	.00720	.07460	.03220	-.00120	-.03230	-.02740	.13188
.900	-3.050	.18670	-.02690	.09130	.02310	.06390	.02480	.00940	-.03690	-.03200	.13193
.899	.000	.13330	-.00970	.07200	.02430	.04370	.01510	.01560	-.04000	-.03480	.13271
.899	3.050	.10440	.00520	.06000	.03190	.02270	.01160	.00920	-.03840	-.03270	.13438
.901	6.090	.04210	.02100	.03850	.06090	.01120	.00910	-.01110	-.02750	-.02140	.12641
GRADIENT		-.1349	.00538	-.00513	.00144	-.00675	-.00216	-.00003	-.00025	-.00011	.00040

CALSPAN T14-053   02 T1 S1   1A36   (AUF075)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	BETA = .000 MPSRA = 150.000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = .000 RUDDER = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	
SCALE = .0190		

RUN NO. 75/ 0   RN/L = 2.11   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.200	-8.110	-.19090	-.00260	-.08070	.04280	.11480	.05270	-.53310	.20270	.20850	.25665
1.203	-4.020	-.02010	-.00610	.00300	.04250	.09720	.04700	-.24630	.08990	.09570	.25863
1.205	.010	.13610	-.01070	.08350	.04000	.08320	.02880	.01040	-.01870	-.01260	.26002
1.207	3.960	.25450	-.01190	.14520	.03920	.06990	.00150	.24300	-.10720	-.10120	.25950
1.203	6.010	.32160	-.01470	.17690	.03700	.06020	-.01040	.36300	-.15400	-.14790	.25947
GRADIENT		.03443	-.00073	.01783	-.00041	-.00343	-.00570	.05132	-.02471	-.02468	.00011

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CALSPAN T14-053   02 T1 S1   1A36   (AUF076)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   ALPHA = .000   MPSRA = 150.000
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   POWER = .000   RUDDER = .000
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

RUN NO. 76/ 0   RN/L = 2.08   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.207	-6.080	.26020	-.02110	.13630	.00100	.10290	.01040	-.00900	-.01430	-.00810	.25931
1.204	-3.050	.21920	-.01530	.11100	.01620	.09270	.02200	-.00230	-.01490	-.00890	.25459
1.204	.000	.14980	-.01090	.08350	.04190	.08380	.03160	.01250	-.01950	-.01370	.25578
1.206	3.050	.03440	-.00480	.03860	.07160	.05720	.03940	-.00760	-.01130	-.00540	.25846
1.206	6.080	-.03790	-.00030	.00790	.10340	.03730	.04770	-.01140	-.00580	-.00580	.25665
GRADIENT		-.33030	.00172	-.01187	.00908	-.00582	.00285	-.00087	.00059	.00057	.00063

CALSPAN T14-053   02 T1 S1   1A36   (AUF077)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES   BETA = .000   MPSRA = 150.000
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES   POWER = 1.000   OPR   = 36.200
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES   SRMPR = 2.330   RUDDER = .000
SCALE = .0190

RUN NO. 77/ 0   RN/L = 2.02   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.205	-8.040	-.19050	-.00130	-.08090	.04420	.10980	.05940	-.52390	.20190	.20750	.24942
1.206	-4.010	-.01730	-.00470	.00320	.04330	.09260	.05440	-.24060	.08600	.09130	.25718
1.201	-.020	.14530	-.00980	.08570	.04130	.07790	.03590	.01660	-.02390	-.01840	.26003
1.193	4.050	.27790	-.01490	.15650	.03590	.06320	.00450	.25200	-.11520	-.10930	.25297
1.202	6.050	.33000	-.01380	.18030	.03210	.05260	-.01210	.35660	-.15280	-.14680	.25319
GRADIENT		.03663	-.00127	.01902	-.00092	-.00365	-.00619	.06112	-.02496	-.02489	-.00052

CALSPAN T14-053   02 T1 G1   1A36   (AUF078)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

ALPHA	=	.000	MPSRA	=	150.000
POWER	=	1.000	OPR	=	35.200
SRMPR	=	2.330	RUDDER	=	.000

RUN NO. 78/ 0   RN/L = 2.05   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.175	-6.080	.28140	-.02060	.13960	.01160	.10170	.01160	-.00100	-.01970	-.01390	.25564
1.193	-3.040	.21820	-.01530	.11370	.03200	.08980	.02500	-.00570	-.02190	-.01530	.24959
1.206	.000	.14873	-.00940	.08760	.03950	.08000	.03000	-.01460	-.02200	-.01650	.26712
1.197	3.050	.02450	-.00370	.03890	.05150	.04620	.03880	-.00030	-.01760	-.01180	.25061
1.197	6.080	-.03840	.00190	.00950	.09010	.02580	.04480	-.01110	-.01170	-.00610	.24538
GRADIENT		-.03181	.00190	-.01228	.00320	-.00716	.00227	-.00099	.00071	.00058	.00016

CALSPAN T14-053   01 T1 S1   1A36   (AUF081)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA

BETA	=	.000	MPSRA	=	.000
POWER	=	.000	RUDDER	=	.000

RUN NO. 81/ 0   RN/L = 2.16   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.203	-8.110	-.17670	-.00250	-.07880	-.00100	.11270	.03940	-.52460	.19890	.20450	.23983
1.197	-4.070	-.00800	-.00640	.00420	-.00080	.09440	.03410	-.24830	.09030	.09600	.24670
1.203	.050	.14400	-.01110	.08410	.00000	.08010	.01470	.00880	-.01730	-.01160	.25227
1.200	4.020	.25680	-.01230	.14480	.00050	.06360	-.01170	.24320	-.10710	-.10140	.24586
1.197	6.000	.31950	-.01560	.17390	.00050	.05480	-.02220	.35920	-.15240	-.14660	.24259
GRADIENT		.03276	-.00073	.01739	.00016	-.00381	-.00566	.06076	-.02441	-.02441	-.00009

CALSPAN T14-053   01 T1 S1   1A36   (AUF082)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = .000	RUDDER = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		
SCALE = .0190			

RUN NO. 92/ 0   RN/L = 2.13   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CAW	CBW	CHR	CHE1	CHEO	CN	CLMF	CLM	CAF
1.202	-6.080	.27290	-.02240	.13460	-.02900	.09790	-.00020	-.01180	-.01190	-.00600	.23876
1.202	-3.050	.21530	-.01610	.11060	-.01550	.08900	.01040	-.00270	-.01390	-.00800	.24314
1.202	.000	.14970	-.01140	.08320	.00170	.08100	.01950	-.00900	-.01790	-.01220	.25135
1.200	3.050	.03220	-.00570	.03730	.01850	.05600	.02730	-.00760	-.01190	-.00580	.23890
1.201	6.080	-.03990	-.00090	.00750	.03140	.03650	.03600	-.01270	-.01350	-.00760	.23394
GRADIENT		-.03002	.00170	-.01202	.00557	.00541	.00277	-.00080	.00033	.00036	-.00071

CALSPAN T14-053   01 T1 S1   1A36   (AUF083)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	BETA = .000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 36.200
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.330	RUDDER = .000
SCALE = .0190			

RUN NO. 83/ 0   RN/L = 2.09   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CAW	CBW	CHR	CHE1	CHEO	CN	CLMF	CLM	CAF
1.199	-8.090	-.18050	-.00070	-.07920	.00090	.09900	.04860	-.50700	.18730	.19290	.24346
1.194	-4.050	-.02090	-.00400	.00230	.00110	.08100	.04280	-.22990	.07750	.08290	.25372
1.198	-.050	.14710	-.00930	.08550	.00250	.07270	.02590	.01660	-.02490	-.01940	.25828
1.194	3.990	.26180	-.01100	.14760	.00410	.05640	-.00030	.24610	-.11020	-.10460	.25156
1.197	6.060	.32860	-.01380	.17950	.00290	.04790	-.01680	.36490	-.15790	-.15240	.24970
GRADIENT		.03515	-.00087	.01807	.00037	-.00306	-.00536	.05920	-.02334	-.02332	-.00027

CALSPAN T14-053   01 TI S1   1A36   (AUF084)   (26 SEP 73)

REFERENCE DATA			PARAMETRIC DATA		
SREF = 2690.0004 FT.SOU	XMRP = 953.0001 INCHES		ALPHA = .000	MPSRA = .000	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		POWER = 1.000	OPR = 36.200	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		SRMPR = 2.330	RUDDER = .000	
SCALE = .0190					

RUN NO. 84/ 0   RN/L = 2.11   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.193	-6.070	.27660	-.02070	.13800	-.02970	.09360	.00760	-.00100	-.02320	-.01720	.24010
1.198	-3.050	.21720	-.01410	.11490	-.01450	.08470	.02040	.00990	-.02530	-.01950	.25249
1.196	.000	.14850	-.00930	.08560	.00620	.07310	.03060	.01800	-.02670	-.02110	.25757
1.198	3.050	.02850	-.00330	.03960	.02170	.04070	.03510	-.00080	-.01880	-.01310	.24749
1.197	6.070	-.02930	.00220	.01160	.03270	.02010	.03870	-.00310	-.02190	-.01640	.24376
	GRADIENT	-.03093	.00177	-.01234	.00593	-.00721	.00241	-.00175	.00107	.00105	-.00082

CALSPAN T14-053   01 TI S1   OPR = 2.65 X NOM   (AUF085)   (26 SEP 73)

REFERENCE DATA			PARAMETRIC DATA		
SREF = 2690.0004 FT.SOU	XMRP = 953.0001 INCHES		BETA = .000	MPSRA = .000	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		POWER = 1.000	OPR = 95.800	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		SRMPR = 2.330	RUDDER = .000	
SCALE = .0190					

RUN NO. 85/ 0   RN/L = 2.06   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.194	-8.070	-.18370	.00020	-.08006	-.00130	.09030	.04930	-.49900	.17370	.17800	.23606
1.192	-4.090	-.01580	-.00330	.00160	-.00300	.07480	.04850	-.22950	.07770	.07770	.24622
1.193	-.060	.14140	-.00880	.08540	-.00340	.06530	.02970	.02060	-.03033	-.02590	.25310
1.196	5.970	.33510	-.01270	.18050	.00540	.04090	.01070	.36360	-.16070	-.15630	.24776
	GRADIENT	.03901	-.00136	.02079	.00010	-.00236	-.00467	.06206	-.02571	-.02568	.00171

CALSPAN T14-053　　01 T1 S1　　OPR = 1.84 X NOM　　(AUFC86)　(26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	
SCALE = .0190		

PARAMETRIC DATA

BETA = .000	MPSRA = .000
POWER = 1.000	OPR = 66.700
SRMPR = 2.330	RUDDER = .000

RUN NO. 86/ 0　　RN/L = 2.01　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CMW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.189	-8.120	-.18200	-.00020	-.08160	.01020	.09790	.06400	-.50770	.18130	.18670	.23568
1.191	-4.090	-.00970	-.00410	.00390	.00930	.08230	.05560	-.23110	.07820	.08340	.25062
1.196	-.070	.14580	-.00920	.08660	.00670	.06990	.02920	.01700	-.02470	-.01940	.25959
1.197	3.980	.28950	-.01360	.15850	.00700	.05750	.00270	.25470	-.11590	-.11020	.25451
1.198	6.060	.34180	-.01310	.18130	.00750	.04470	-.01100	.36370	-.15780	-.15230	.25265
	GRADIENT	.03707	-.00118	.01916	-.00028	-.00307	-.00656	.06020	-.02405	-.02399	.00048

CALSPAN T14-053　　01 T1 S1　　SRMPR=1.36 X NOM　　(AUF087)　(26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	
SCALE = .0190		

PARAMETRIC DATA

BETA = .000	MPSRA = .000
POWER = 1.000	OPR = 36.200
SRMPR = 2.330	RUDDER = .000

RUN NO. 87/ 0　　RN/L = 2.06　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CMW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.198	-7.930	-.17910	.00130	-.07750	.01090	.08610	.05950	-.48640	.16760	.17230	.24259
1.199	-3.880	-.00120	-.00310	.01050	.00860	.07100	.05050	-.21410	.06650	.07090	.25339
1.195	.170	.15890	-.00820	.09070	.00990	.06020	.03280	.03260	-.03600	-.03180	.25577
1.198	4.230	.26840	-.00930	.15120	.00780	.04120	.00030	.25630	-.12090	-.11660	.25102
1.196	6.130	.34090	-.01210	.18180	.00700	.03360	-.01230	.36610	-.16200	-.15770	.24822
	GRADIENT	.03324	-.00076	.01735	-.00010	-.00367	-.00626	.05800	-.02311	-.02312	-.00029

CALSPAN T14-053   01 T1 S1   1A36

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA (AUF088)   (26 SEP 73)

| BETA | = | .000 | MPSRA | = | .000 |
| POWER | = | .000 | RUDDER | = | .000 |

RUN NO. 88/ 0   RN/L = 2.80   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.898	-8.070	-.13040	.01130	-.05870	.00970	.05700	.04120	-.46830	.15070	.15510	.10410
.901	-4.050	.00030	.00490	.00950	.00930	.04320	.03350	-.21810	.05120	.05520	.11980
.899	-.030	.12970	-.00780	.07580	.01070	.03970	.02350	.01820	-.04510	-.04130	.11641
.899	4.000	.24160	-.02950	.12580	.01110	.04800	.03650	.23230	-.11830	-.11500	.11233
.901	5.970	.27540	-.03980	.13440	.01170	.05030	.03440	.32350	-.14540	-.14190	.10663
GRADIENT		.02997	-.00427	.01445	.00022	.00060	.00037	.05595	-.02105	-.02114	-.00093

CALSPAN T14-053   01 T1 S1   1A36

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES
SCALE	=	.0190			

PARAMETRIC DATA (AUF089)   (26 SEP 73)

| ALPHA | = | .000 | MPSRA | = | .000 |
| POWER | = | .000 | RUDDER | = | .000 |

RUN NO. E9/ 0   RN/L = 2.78   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.902	-6.080	.22150	-.03840	.10490	.00670	.07170	.03900	.00110	-.03790	-.03400	.11480
.899	-3.050	.19540	-.02500	.09590	.01980	.06110	.03440	.01320	-.04390	-.04020	.11173
.905	.000	.14480	-.00720	.07690	.01290	.03830	.02690	.01730	-.04550	-.04070	.11769
.901	3.050	.09980	.00620	.06180	.00000	.02240	.02340	.01380	-.04550	-.04150	.11698
.901	6.090	.04550	.02050	.04240	.02010	.01070	.02260	.00270	-.03440	-.02990	.11273
GRADIENT		-.01567	.00511	-.00559	-.00325	-.00634	-.00180	-.00010	-.00026	.00021	.00086

CALSPAN T14-053　　　01 TI S1　　　IA36　　　(AUF090)　　(26 SEP 73)

REFERENCE DATA

PARAMETRIC DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES	BETA = .000　　MPSRA = .000
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES	POWER = 1.000　OPR = 28.310
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES	SRMPR = 2.020　RUDDER = .000
SCALE =	.0190			

RUN NO. 90/ 0　　RN/L = 2.69　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.898	-3.990	-.00470	.04370	.00710	.01610	.04850	.04400	-.21020	.04800	.05320	.13194
.899	.100	.13260	-.00800	.07630	.01280	.04070	.02570	.02370	-.04540	-.04040	.13455
.897	4.030	.24180	-.02990	.12740	.01400	.04990	.04020	.24450	-.12760	-.12250	.12220
.901	5.980	.27440	-.04000	.13630	.01510	.05240	.03820	.33680	-.15440	-.14940	.12590
	GRADIENT	.03075	-.00418	.01501	-.00027	.00016	-.00050	.05670	-.02190	-.02191	-.00120

CALSPAN T14-053　　　01 YI S1　　　IA36　　　(AUF091)　　(26 SEP 73)

REFERENCE DATA

PARAMETRIC DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES	ALPHA = .000　　MPSRA = .000
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES	POWER = 1.000　OPR = 28.310
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES	SRMPR = 2.020　RUDDER = .000
SCALE =	.0190			

RUN NO. 91/ C　　RN/L = 2.68　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.897	-6.080	.21650	-.04080	.10320	.01420	.07430	.04550	.01200	-.04420	-.03890	.12151
.899	-3.050	.19070	-.02550	.09520	.02580	.06410	.03670	.02240	-.04970	-.04500	.13353
.899	.000	.13790	-.00800	.07750	.01370	.04010	.02660	.02520	-.04820	-.04330	.13684
.898	3.050	.10610	.00620	.06350	-.00500	.02130	.02500	.02260	-.04930	-.04390	.12902
.E39	6.080	.04490	.02110	.04300	.01660	.00920	.02430	.00620	-.04000	-.03440	.12342
	GRADIENT	-.01367	.00520	-.00520	-.00505	-.00702	-.00192	.00003	.00007	.00018	-.00074

CALSPAN T14-053   01 T1 S1   OPR = 2.5 X NOM   (AUF092)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES
SCALE = .0190	

PARAMETRIC DATA

BETA = .000	MPSRA = .000
POWER = 1.000	OPR = 70.500
SRMPR = 2.020	RUDDER = .000

RUN NO. 92/ 0   RN/L = 2.70   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNH	CMH	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.900	-8.140	-.13470	.01430	-.06240	.00370	.05370	.02880	-.45230	.14090	.14730	.12455
.997	-4.020	.00490	.00410	.00810	.00660	.04410	.02670	-.20510	.01180	.04800	.13410
.903	.020	.14900	-.00660	.07820	.00540	.03450	.01440	.03040	-.05380	-.04810	.14063
.899	4.020	.25280	-.02910	.12710	.00380	.04660	.02620	.24580	-.12960	-.12390	.1396!
.898	6.010	.28570	-.04020	.13860	.00160	.05060	.01760	.33930	-.15730	-.15150	.1336!
GRADIENT		.03084	-.00413	.01481	-.00035	.00031	-.00007	.05621	.02132	-.02138	.00069

CALSPAN T14-053   01 T1 S1   OPR = 1.72 X NOM   (AUF093)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES
SCALE = .0190	

PARAMETRIC DATA

BETA = .000	MPSRA = .000
POWER = 1.000	OPR = 48.600
SRMPR = 2.020	RUDDER = .000

RUN NO. 93/ 0   RN/L = 2.70   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNH	CMH	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.898	-8.100	-.13230	.01320	-.05950	.00250	.05410	.03100	-.45690	.14330	.14940	.11859
.900	-3.990	.00900	.00470	.00960	.00710	.04350	.02810	-.20930	.04790	.05350	.13380
.899	.060	.14900	-.00820	.07850	.00590	.03920	.01620	.03150	-.05450	-.04920	.13497
.904	4.060	.25770	-.02850	.12700	.00510	.04520	.03100	.24980	-.13140	-.12550	.1405~
.898	6.010	.29270	-.04030	.13840	.00570	.05130	.02490	.34130	-.15760	-.15230	.1223?
GRADIENT		.03090	-.00412	.01459	-.00025	.00021	.00035	.05704	-.02228	-.02237	.0008~

CALSPAN T14-053   01 T1 S1   SRMPA = 1.2 X NOM   (AUF094) (26 SEP 73)

REFERENCE DATA

				PARAMETRIC DATA		
SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES	BETA =	MPSRA =	.000
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES	POWER =	OPR =	28.310
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES	SRMPR =	RUDDER =	.000
SCALE =	.0190					

RUN NO 94/ 0   RN/L = 2.68   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.898	-7.970	-.13170	.01180	-.06040	.00520	.05420	.03660	-.44730	.13790	.14280	.11797
.894	-3.980	.00490	.00070	.00560	.00770	.04840	.03320	-.20770	.04840	.05320	.12505
.901	.120	.14850	-.00890	.07780	.00720	.03890	.01680	.03070	-.05290	-.04850	.13507
.905	4.090	.26360	-.02930	.12840	.00710	.04520	.02890	.24730	-.12920	-.12520	.13775
.897	6.070	.29580	-.03990	.13660	-.00780	.04630	.02100	.33720	-.15460	-.14930	.11651
	GRADIENT	.53207	-.00371	.01523	-.00007	-.00041	-.00055	.05639	-.02202	-.02212	.00158

CALSPAN T14-053   01 T1 S1   1A36   (AUF095) (26 SEP 73)

REFERENCE DATA

				PARAMETRIC DATA		
SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES	BETA =	MPSRA =	.000
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES	POWER =	RUDDER =	10.000
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES			
SCALE =	.0190					

RUN NO. 95/ 0   RN/L = 2.15   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.203	-8.100	-.17130	-.00270	-.07860	-.10620	.11830	.03900	-.52640	.20050	.20610	.24522
1.202	-4.040	-.00500	-.00590	.00370	-.10190	.09970	.03270	-.24520	.09050	.09610	.25680
1.206	-.020	.14880	-.01020	.08320	-.09630	.08500	.01360	.00910	-.01580	-.01030	.26184
1.204	3.990	.26110	-.01130	.14440	-.09050	.06950	.01370	.24460	-.10570	-.10010	.26619
1.202	6.030	.32790	-.01470	.17530	-.08350	.05960	-.02520	.36280	-.15200	-.14630	.25272
	GRADIENT	.03314	-.00067	.01752	.00142	-.00376	-.00578	.06100	-.02443	-.02443	-.00009

CALSPAN T14-053   01 T1 S1   IA36   (AUF096)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000 MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = .000 RUDDER = 10.000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	
SCALE = .0190		

RUN NO. 96/ 0   RN/L = 2.12   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.200	-6.080	.28440	-.02120	.13420	-.13960	.10520	-.00400	-.01360	-.00940	-.00350	.24669
1.203	-3.050	.23000	-.01480	.11150	-.11930	.09350	.00570	-.00280	-.01220	-.00650	.25275
1.199	.000	.15870	-.01040	.08350	-.09480	.08380	.01500	.01080	-.01740	-.01170	.25910
1.203	3.050	.03740	-.00520	.03710	-.07320	.05710	.02330	.00530	-.01110	-.00520	.24890
1.203	6.080	-.03160	-.00050	.00950	-.04940	.03730	.03130	-.01020	-.01180	-.00600	.24288
GRADIENT		-.03157	.00157	-.01220	.00756	-.00597	.00289	-.00041	.00018	.00021	-.00063

CALSPAN T14-053   01 T1 S1   IA36   (AUF097)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	BETA = .000 MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000 CPR = 36.000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.330 RUDDER = 10.000
SCALE = .0190		

RUN NO. 97/ 0   RN/L = 2.11   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.187	-7.790	-.16740	-.00050	-.07450	-.10100	.09630	.04570	-.48570	.17500	.18120	.23872
1.205	-4.020	-.00110	-.00400	.00740	-.03920	.08450	.04110	-.23560	.08320	.09970	.25799
1.157	4.060	.26050	-.01150	.14590	-.08960	.05500	-.00420	.25540	-.11630	-.11990	.24100
1.190	6.010	.33150	-.01770	.17810	-.08690	.04820	-.01530	.36370	-.15670	-.16050	.23677
GRADIENT		.03238	-.00093	.01725	.00105	-.00365	-.00561	.05079	-.02459	-.02458	-.00210

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CALSPAN T14-053　　01 T1 S1　　1A36

REFERENCE DATA

SREF	= 2690.0004 FT.SQU	XMRP	= 953.0001 INCHES
LREF	= 1328.0002 INCHES	YMRP	= .0000 INCHES
BREF	= 1328.0002 INCHES	ZMRP	= 400.0000 INCHES
SCALE	= .0190		

ALPHA =
POWER =
SRMPR =

PARAMETRIC DATA　　(AUF038)　(26 SEP 73)

MPSRA	=	.000
OPR	=	36.200
RUDDER	=	10.000

RUN NO. 98/ 0　　RN/L = 2.10　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.195	-6.070	.28520	.13980	-.01990	-.14120	.09440	.00730	-.00210	-.01950	-.01360	.24557
1.206	-3.050	.22990	.11640	-.01290	-.11920	.08600	.01660	.00540	-.01860	-.01320	.25291
1.202	.000	.15390	.08750	-.00950	-.09240	.07200	.01760	.02630	-.02640	-.02060	.25039
1.203	3.050	.03750	.03340	-.00230	-.07030	.04030	.02570	-.00110	-.01430	-.00930	.24995
1.199	6.080	-.02100	.01310	.00170	-.04920	.02390	.02980	-.01050	-.01170	-.00520	.24795
GRADIENT		-.33154	-.01279	.00164	.00302	-.00749	.00149	-.00107	.00070	.00080	-.00212

CALSPAN T14-053　　01 T1 S1　　OPR = 2.7 X NOM

REFERENCE DATA

SREF	= 2690.0004 FT.SQU	XMRP	= 953.0001 INCHES
LREF	= 1328.0002 INCHES	YMRP	= .0000 INCHES
BREF	= 1328.0002 INCHES	ZMRP	= 400.0000 INCHES
SCALE	= .0190		

ALPHA =
POWER =
SRMPR =

PARAMETRIC DATA　　(AUF099)　(26 SEP 73)

MPSRA	=	.000
OPR	=	97.500
RUDDER	=	10.000

RUN NO. 99/ 0　　RN/L = 2.10　　GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.200	-6.080	.29150	.14390	-.01850	-.12200	.08470	-.00170	.01580	-.03440	-.03000	.24789
1.202	-3.050	.22290	.11510	-.01230	-.09200	.07660	.01290	.00920	-.02640	-.02170	.25187
1.198	.000	.15090	.08510	-.00820	-.06920	.06360	.01963	.01660	-.02340	-.01910	.25745
1.200	3.050	.03970	.04040	-.00130	-.05570	.02440	.02770	-.00200	-.01780	-.01300	.24467
1.198	6.080	-.00780	.01450	.00450	-.05070	.01150	.03030	-.00520	-.01950	-.01470	.23700
GRADIENT		-.03002	-.01225	.00180	.00595	-.00856	.00243	-.00184	.00141	.00143	-.00118

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TABLED DATA FOR CAL T14-053 (1A36)

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CALSPAN T14-053   01 T1 S1   1A36   (AUF100)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SOU	XMRP = 953.0001 INCHES		
LREF = 1328.C002 INCHES	YMRP = .0000 INCHES		
BREF = 1328.C002 INCHES	ZMRP = 400.0000 INCHES		
SCALE = .0190			

PARAMETRIC DATA

BETA =   .000   MPSRA =   .000
POWER =   .000   RUDDER = 10.000

RUN NO. 100/ 0   RN/L = 2.76   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CNW	CRW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.901	-8.100	-.12200	.01190	-.05840	-.05540	.05570	.02520	-.46930	.15210	.15620	.11049
.900	-4.190	-.00983	.00290	.00700	-.05320	.04600	.01840	-.22680	.05670	.06060	.11778
.899	.020	.14280	-.00990	.07370	-.05220	.04070	.00830	.01850	-.04340	-.03950	.11570
.903	3.980	.25200	-.03010	.12330	-.05180	.04740	.02050	.23030	-.11660	-.11310	.11810
.903	6.010	.29230	-.03960	.13580	-.05180	.04820	.0140	.3272C	-.14480	-.14130	.11195
.899	GRADIENT	.52967	-.00403	.01425	.00017	.00016	.00023	.05597	-.02124	-.02129	.00003

CALSPAN T14-053   01 T1 S1   1A36   (AUF101)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SOU	XMRP = 953.0001 INCHES		
LREF = 1328.C002 INCHES	YMRP = .0000 INCHES		
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		
SCALE = .0190			

PARAMETRIC DATA

ALPHA =   .000   MPSRA =   .000
POWER =   .000   RUDDER =   0.01

RUN NO. 101/ 0   RN/L = 2.75   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CYW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.900	-6.080	.22910	-.03980	.10200	-.08010	.07080	.02260	.00040	-.03490	-.03090	.11684
.901	-3.050	.20740	-.02450	.09430	-.06760	.05960	.01630	.01340	-.04160	-.03800	.12048
.903	.000	.15810	-.00750	.07650	-.05230	.03580	.00890	.01830	-.04350	-.03990	.12528
.902	3.050	.1118C	-.00460	.05810	-.05410	.02210	.00630	.01200	-.04190	-.03800	.12006
.903	6.090	.05830	.01920	.04020	-.05160	.01020	.00550	-.00220	-.03330	-.02910	.11719
	GRADIENT	-.01567	.00477	-.00593	.00221	-.00615	-.00164	-.00023	.00005	.00000	-.00007

CALSPAN T14-053   01 T1 S1   IA36

REFERENCE DATA

					(AUF102) (26 SEP 73)
SREF = 2690.3004 FT.SQU	XMRP = 953.0001 INCHES	BETA =			PARAMETRIC DATA
LREF = 1322.0002 INCHES	YMRP = .0000 INCHES	POWER =			BETA = .000 MPSRA = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR =			POWER = 1.000 OPR = 28.310
SCALE = .0190					SRMPR = 2.020 RUDDER = 10.000

RUN NO. 102/ 0   RN/L = 2.79   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.899	-7.860	-.12940	.01150	-.05770	-.04610	.05730	.03290	-.44780	.14350	.14890	.12676
.902	-4.040	.00530	.00330	.00830	-.04150	.04770	.02360	.20770	.04490	.05010	.13781
.900	-.030	.13470	-.00770	.07210	-.04150	.04040	.01230	.02490	-.04860	-.04360	.13812
.903	4.110	.24830	-.03010	.12560	-.04370	.04870	.02340	.25120	-.12880	-.12410	.14336
.921	6.080	.28670	-.02540	.13920	-.04300	.04700	.02090	.32540	-.14590	-.14150	.15305
	GRADIENT	.02980	-.00411	.01438	-.00027	.00013	-.00001	.05630	-.02130	-.02136	.00068

CALSPAN T14-053   01 T1 S1   IA36

REFERENCE DATA

					(AUF103) (26 SEP 73)
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	ALPHA =			PARAMETRIC DATA
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER =			ALPHA = .000 MFSRA = .000
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR =			POWER = 1.000 OPR = 28.310
SCALE = .0190					SRMPR = 2.020 RUDDER = 10.000

RUN NO. 103/ 0   RN/L = 2.79   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.05	-6.090	.21770	-.04030	.10190	-.08810	.07380	.02340	.00290	-.03580	-.03020	.13627
.895	-3.050	.19170	-.02740	.09300	-.05920	.06410	.01930	.01760	-.04430	-.03890	.13179
.906	.000	.15280	-.00840	.08040	-.04400	.03580	.00740	.03540	-.05410	-.04910	.17095
.900	3.060	.10850	.00550	.05880	-.04690	.02080	.00530	.01410	-.04160	-.03620	.15114
.895	6.090	.04920	.01950	.03880	-.05120	.01140	.00580	-.00550	-.03080	-.02490	.14755
	GRADIENT	-.01362	.00538	-.00560	.00201	-.00709	-.00229	-.00058	.00044	.00044	.00490

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CALSPAN T14-053   01 T1 S1   OPR = 2.45 X NOM   (AUF104)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES	ALPHA	=	.000	MPSRA	=	.000
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES	POWER	=	1.000	OPP	=	69.300
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000 INCHES	SRMPR	=	2.020	RUDDER	=	10.000
SCALE	=	.0190									

RUN NO. 104/ 0   RN/L = 2.79   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CNH	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.907	-6.090	.21870	-.03960	.10340	-.09350	.07450	.02620	.00580	-.03960	-.03380	.14700
.898	-3.050	.20220	-.02680	.09720	-.05850	.06440	.02090	.02410	-.05110	-.04510	.13608
.898	.000	.14090	-.00840	.07390	-.04100	.04090	.01330	.02250	-.04730	-.04130	.13566
.090	3.060	.10940	.00540	.05900	-.04670	.01980	.00710	.01910	-.04690	-.04090	.13955
.895	6.090	.05670	.01960	.04240	-.04610	.00900	.00860	-.00220	-.03380	-.02730	.12643
	GRADIENT	-.01519	.00527	-.0625	.00193	-.00730	-.00226	-.00082	.00059	.00070	.00057

CALSPAN T14-053   01 T1 S1   1A36   (AUF105)   (26 SEP 73)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001 INCHES	ALPHA	=	.000	MPSRA	=	.000
LREF	=	1328.0002 INCHES	YMRP	=	.0000 INCHES	POWER	=	1.000	OPR	=	36.200
BREF	=	1328.0002 INCHES	ZMRP	=	-00.0000 INCHES	SRMPR	=	2.330	RUDDER	=	.000
SCALE	=	.0190									

RUN NO. 105/ 0   RN/L = 2.12   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CNH	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.204	-6.080	.27500	-.01960	.13830	-.03340	.10160	-.00130	-.00760	-.01620	-.01060	.25354
1.201	-3.040	.22720	-.01400	.11530	-.01450	.09970	.01060	-.00140	-.01740	-.01160	.25767
1.202	.000	.15230	-.00960	.08700	.00680	.07920	.02040	.01330	-.02160	-.01500	.26201
1.195	3.050	.03230	-.00320	.03940	.02510	.04050	.02890	-.00220	-.01450	-.00860	.24940
1.205	6.080	-.02520	.00170	.01450	.03380	.02580	.03540	.00590	-.01520	-.00960	.24639
	GRADIENT	-.03201	.00177	-.01246	.00650	-.00808	.00300	-.00059	.00048	.00049	-.00136

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CALSPAN T14-053   01 T1 S1   1A36   (AUF106) (25 SEP 73)

PARAMETRIC DATA

REFERENCE DATA

SREF	= 2690.0004 FT.SQU	XMRP	= 953.0001 INCHES		
LREF	= 1328.0002 INCHES	YMRP	= .0000 INCHES	ALPHA = .000	MPSRA = .000
BREF	= 1328.0002 INCHES	ZMRP	= 400.0000 INCHES	POWER = .000	RUDDER = .000
SCALE	= .0190				

RUN NO. 106/ 0   RN/L = 2.11   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.206	-6.080	.27240	.13830	-.02060	-.03330	.10810	.00190	-.00630	-.01390	-.00790	.25277
1.205	-3.050	.21560	.11200	-.01490	-.01750	.09760	.01430	-.00070	-.01420	-.00820	.25827
1.204	.000	.14780	.08360	-.01070	.00190	.08800	.02380	.01320	-.01930	-.01350	.26505
1.204	3.050	.02910	.03900	-.00500	.02130	.05980	.03210	.00170	-.01370	-.00760	.25552
1.204	6.060	-.04320	.00780	-.00050	.03630	.03950	.04150	-.00860	-.01330	-.00720	.25115
1.204	GRADIENT	-.03057	-.01197	.00162	.00636	-.00620	.00292	-.00016	.00008	.00010	-.00045

CALSPAN T14-053   01 T1 S1   :A36   (AUF107) (26 SEP 73)

PARAMETRIC DATA

REFERENCE DATA

SREF	= 2690.0004 FT.SQU	XMRP	= 953 0001 INCHES		
LREF	= 1328.0002 INCHES	YMRP	= .0000 INCHES	ALPHA = .000	MPSRA = .000
BREF	= 1328.0002 INCHES	ZMRP	= 400.0000 INCHES	POWER = .000	RUDDER = .000
SCALE	= .0190				

RUN NO. 107/ C   RN/L = 2.75   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.906	-6.080	.21830	.10370	-.03840	.00060	.07240	.03020	.00380	-.03060	-.03480	.11092
.911	-3.050	.20380	.09820	-.02240	.01580	.05950	.02400	.02340	-.05170	-.04820	.11924
.900	.000	.14330	.07310	-.00820	.00640	.03980	.01910	.02090	-.04560	-.04190	.11412
.901	3.050	.09940	.05680	.00430	-.00630	.02520	.01710	.01170	-.04250	-.03860	.11603
.903	6.090	.05110	.04210	.01900	.01620	.01130	.01550	-.00060	-.03480	-.03020	.10901
	GRADIENT	-.01711	-.00679	.00438	-.00362	-.00562	-.00113	-.00192	.00151	.00157	-.00053

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 103

CALSPAN T14-053   01 T1 S1   1A36   (AUF108)   (26 SEP 73)

REFERENCE DATA

SREF	= 2690.0004 FT.SQU	XMRP	= 953.0001 INCHES
LREF	= 1328.0002 INCHES	YMRP	= .0000 INCHES
BREF	= 1328.0002 INCHES	ZMRP	= 400.0000 INCHES
SCALE	= .0190		

PARAMETRIC DATA

ALPHA	= .000	MPSRA	= .000
POWER	= 1.000	OPR	= 28.310
SRMPR	= 2.020	RUDDER	= .000

RUN NO. 108/ 0   RN/L = 2.77   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.902	-6.080	.22810	-.04230	.10600	.00640	.07540	.03620	.00740	-.04040	-.03510	.12281
.890	-3.050	.18670	-.02870	.09040	.01750	.06610	.03180	.02050	-.04720	-.04170	.11051
.900	.000	.15170	-.00820	.07850	.00470	.04050	.00870	.03150	-.05180	-.04670	.13807
.898	3.050	.10830	-.00440	.05780	-.01400	.02450	.00500	.01990	-.04540	-.04080	.12909
.902	6.090	.05770	.01990	.04150	.00630	.00930	.00000	.00000	-.03370	-.02790	.12755
GRADIENT		-.01273	.00542	-.00534	-.00516	-.00581	-.00399	-.00010	.00013	.00015	.00304

CALSPAN T14-053   01 T1 S1   1A36   (AUF109)   (26 SEP 73)

REFERENCE DATA

SREF	= 2690.0004 FT.SQU	XMRP	= 953.0001 INCHES
LREF	= 1328.0002 INCHES	YMRP	= .0000 INCHES
BREF	= 1328.0002 INCHES	ZMRP	= 400.0000 INCHES
SCALE	= .0190		

PARAMETRIC DATA

BETA	= .000	MPSRA	= .000
POWER	= 1.000	OPR	= 36.200
SRMPR	= 2.330	RUDDER	= .000

RUN NO. 109/ 0   RN/L = 2.07   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.201	-.120	.13770	-.00930	.08240	-.00050	.07820	.02700	.01290	-.02440	-.01980	.26078
1.201	4.040	.25500	-.01110	.14790	-.00190	.06400	-.00220	.25020	-.11540	-.11010	.25680
1.203	5.920	.31920	-.01340	.17690	-.00450	.05780	-.01710	.35570	-.15400	-.14870	.25847
GRADIENT		.02820	-.00043	.01575	-.00034	-.00341	-.00702	.05704	-.02188	-.02171	-.00096

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CALSPAN T14-053   01 T1 S1   1A36   (AUF110)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	
SCALE = .0150		

PARAMETRIC DATA

ALPHA = .000	MPSRA = .000
POWER = 1.000	OPR = 36.200
SRMPR = 2.330	RUDDER = .000

RUN NO. 110/ 0   RN/L = .16   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.199	-6.080	.27450	-.02010	.13720	-.01530	.09970	.00800	-.00740	-.01900	-.01390	.25175
1.204	-3.040	.21710	-.01310	.11410	.01540	.08990	.01670	-.00460	-.01490	-.01000	.25211
1.204	.000	.13960	-.00890	.08470	-.00070	.07850	.02500	.00260	-.01720	-.01280	.25961
1.207	3.050	.02630	-.00250	.04060	.00210	.04500	.03210	-.00490	-.01590	-.01100	.25091
1.196	6.080	-.02880	.00290	.01100	.03490	.02210	.03750	-.01460	-.01400	-.00910	.24464
GRADIENT		-.03123	.00174	-.01207	-.00218	-.00737	.00253	-.00005	-.00016	-.00016	-.00020

CALSPAN T14-053   01 T1 S1   1A36   (AUF111)   (26 SEP 73)

REFERENCE DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	
SCALE = .0190		

PARAMETRIC DATA

BETA = .000	MPSRA = .000
POWER = 1.000	OPR = 28.310
SRMPR = 2.020	RUDDER = .000

RUN NO. 111/ 0   RN/L = 2.69   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.901	-8.110	-.14210	.01290	-.06480	.00390	.05880	.03200	-.46930	.15250	.15810	.11630
.902	-4.120	-.00210	.00500	.00460	.00690	.04690	.02870	-.21570	.04830	.05370	.13157
.904	-.100	.13790	-.00530	.07550	.00520	.03490	.01820	.01150	-.04010	-.03490	.13443
.902	3.970	.24580	-.02900	.12270	.00430	.05040	.03390	.23480	-.12200	-.11700	.12637
.902	5.990	.28300	-.04060	.13950	.00350	.05470	.02630	.34240	-.15830	-.15320	.12691
GRADIENT		.03063	-.00421	.01459	-.00032	.00044	.00065	.05568	-.02105	-.02110	-.00065

CALSPAN T14-053   01 T1 S1   1A36

(AUF112)   (26 SEP 73)

REFERENCE DATA

			PARAMETRIC DATA		
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		ALPHA =	.000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		POWER =	1.000	OPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		SRMPR =	2.020	RUDDER = .000
SCALE = .0190					

RUN NO. 112/ 0   RN/L = 2.65   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CPW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.903	-6.080	.21360	-.04070	.10270	-.01420	.07670	.03000	.00100	-.03390	-.02840	.12925
.904	-3.050	.19450	-.02410	.09530	.01650	.06480	.02350	.01320	-.04450	-.03930	.13426
.901	.000	.14260	-.00540	.07490	.00530	.03790	.01820	.02470	-.05020	-.04510	.13524
.900	3.050	.10620	.00720	.06040	.00030	.01880	.01370	.00900	-.03740	-.03190	.13468
.901	6.090	.04220	.02090	.03810	-.02750	.01180	.01290	-.00090	-.03560	-.02970	.12449
GRADIENT		-.01448	.00513	-.00589	-.00266	-.00754	-.00161	-.00059	.00116	.00121	.00007

CALSPAN T14-053   0: T1 S1   1A3F

(AUF113)   (26 SEP 73)

REFERENCE DATA

			PARAMETRIC DATA		
SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES		BETA =	.000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES		POWER =	1.000	OPR = 36.200
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES		SRMPR =	2.330	RUDDER = .000
SCALE = .0190					

RUN NO. 113/ 0   RN/L = 2.06   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.204	-8.050	-.17310	-.00010	-.07910	.00410	.09950	.04180	-.50280	.18730	.19450	.25429
1.207	-4.010	.00040	-.00350	.00690	.00570	.08250	.03630	-.23350	.08460	.09140	.26891
1.207	.010	.15440	-.00800	.08610	.00690	.07050	.01880	.01220	-.01900	-.01230	.27220
1.199	3.990	.26470	-.00970	.14770	.00550	.04940	-.01030	.25050	-.11540	-.10860	.25826
1.203	6.000	.33410	.01240	.18010	.00340	.04210	-.02500	.36600	-.16000	-.15420	.26005
GRADIENT		.03305	-.00078	.01760	-.00002	-.00414	-.00582	.06050	-.02500	-.02500	-.00133

CALSPAN T14-053   01 TI SI   IA36   (AUF114) (26 SEP 73)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.000: FT.SQU	XMRP = 953.0001 INCHES	ALPHA = .000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 36.200
BREF = 1328.C902 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.330	RUDDER = .000
SCALE = .0190			

RUN NO. 114/ 0   RN/L = 2.05   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.208	-6.070	.28490	-.01910	.14000	-.05140	.09290	.00140	-.00720	-.01560	-.00870	.25852
1.203	-3.040	.23290	-.01330	.11630	-.02420	.08000	.01360	.02470	-.03270	-.02560	.26044
1.198	.000	.15610	-.00870	.08660	.00640	.06850	.02090	.01400	-.01990	-.01320	.26778
1.203	3.050	.04140	-.00180	.04200	.03590	.03070	.02680	.00640	-.02020	-.01320	.25605
1.203	6.080	-.01520	.00410	.01490	.05820	.01280	.02950	-.00080	-.02070	-.01370	.25063
GRADIENT		-.03145	.00189	-.01220	.00987	-.00810	.00217	-.00300	.00205	.00204	-.00072

CALSPAN T14-053   01 TI SI   IA36   (AUF115) (26 SEP 73)

REFERENCE DATA

PARAMETRIC DATA

SREF = 2690.0004 FT.SQU	XMRP = 953.0001 INCHES	BETA = .000	MPSRA = .000
LREF = 1328.0002 INCHES	YMRP = .0000 INCHES	POWER = 1.000	OPR = 28.310
BREF = 1328.0002 INCHES	ZMRP = 400.0000 INCHES	SRMPR = 2.020	RUDDER = .000
SCALE = .0190			

RUN NO. 115/ 0   RN/L = 2.68   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.901	-8.060	-.12770	.01550	-.05710	.00270	.05220	.03140	-.44560	.13540	.14250	.12998
.903	-3.970	.01510	.00710	.01280	.00240	.03650	.02530	-.18970	.03290	.03990	.13932
1.030	.070	.15330	-.00590	.08080	.00480	.03240	.01750	.05530	-.07380	-.0673C	.14022
.96.	4.020	.25250	-.02860	.12770	.00630	.04720	.03200	.26310	-.14220	-.13570	.13259
.900	5.990	.29920	-.03890	.14440	.00640	.05110	.02630	.36470	-.17470	-.16830	.13013
GRADIENT		.02973	-.00446	.01439	.00049	.00133	.00093	.05669	-.02193	-.02199	-.00084

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 107

CALSPAN T14-053   01 T1 S1   1A36

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

(AUF116)   (26 SEP 73)

ALPHA = .000   MPSRA = .000
POWER = 1.000   OPR = 28.310
SRMPR = 2.020   RUDDER = .000

RUN NO. 116/ 0   RN/L = 2.69   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.900	-6.000	.23030	-.04010	.10640	.00120	.07640	.03470	.02620	-.05420	-.04730	.13087
.902	-3.050	.21460	-.02450	.10140	.02800	.06350	.02900	.01870	-.04350	-.03700	.14025
.899	.000	.55000	-.00520	.08090	.00590	.03300	.01800	.05140	-.07020	-.06330	.13660
.899	3.060	.10930	-.00700	.05340	-.00940	.01450	.01270	.04270	-.06630	-.05960	.13302
.901	6.090	.05030	.02200	.04140	.02210	.00460	.01430	.02500	-.05480	-.04750	.13184
	GRADIENT	-.01723	.00530	-.00622	-.00612	-.00802	-.00267	.00392	-.00383	-.00370	-.00118

CALSPAN T14-053   01 T1 S1   1A36

REFERENCE DATA

SREF = 2690.0004 FT.SQU   XMRP = 953.0001 INCHES
LREF = 1328.0002 INCHES   YMRP = .0000 INCHES
BREF = 1328.0002 INCHES   ZMRP = 400.0000 INCHES
SCALE = .0190

PARAMETRIC DATA

(AUF117)   (26 SEP 73)

BETA = .000   MPSRA = .000
POWER = .000   RUDDER = .000

RUN NO. 117/ 0   RN/L = 2.13   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CHW	CBW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.205	-8.090	-.17690	-.00300	-.07940	.00000	.12060	.04250	-.52290	.19940	.20520	.24622
1.178	-6.110	-.09130	-.00450	-.03850	.00070	.11090	.04030	-.37920	.14320	.14910	.24932
1.206	-4.070	-.00360	-.00610	.00540	.00150	.10180	.03780	-.24400	.08980	.09560	.25327
1.205	-2.010	-.07780	-.00840	.04710	.00190	.09330	.03050	-.11190	.03350	.03940	.25555
1.205	-.030	-.14960	-.01070	.08390	.00210	.08730	.01840	-.00800	.01680	.01090	.25745
1.200	2.030	-.21710	-.01320	.11960	.00220	.08080	.00530	.17120	-.06420	-.05830	.25588
1.205	4.000	-.26140	-.01190	.14520	.00310	.07100	-.009.0	.24640	-.10830	-.10220	.24990
1.203	5.960	-.32710	-.01460	.17470	.00260	.06180	-.02100	.35530	-.15110	-.14510	.24855
1.203	7.990	-.37980	-.01650	.19990	.00260	.05040	-.03390	.47000	-.19480	-.18880	.24498
	GRADIENT	.03318	-.00081	.01745	.00017	-.00367	-.00589	.06065	-.02448	-.02445	-.00031

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 108

CALSPAN T14-053   01 T1 S1   1A36   (AUF118)   (26 SEP 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

PARAMETRIC DATA

| ALPHA = | .000 | MPSRA = | .000 |
| POWER = | .000 | RUDDER = | .000 |

RUN NO. 118/ 0   RN/L = 2.12   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
1.207	-8.080	.29200	.13800	-.02350	-.04500	.11350	-.00280	-.05050	.00170	.06780	.24019
1.204	-6.060	.29110	.13860	-.02160	-.C3040	.10490	-.00130	-.00820	.01340	-.00740	.24398
1.205	-4.030	.24960	.12190	-.01780	-.02050	.09940	.00610	-.0063C	.01280	-.00670	.24645
1.204	-3.040	.22970	.11330	-.01560	.01510	.09600	.00970	.00260	.01370	-.00780	.24873
1.202	-2.020	.20950	.10460	-.01330	-.01140	.09230	.01290	.00030	.01510	-.00910	.25137
1.203	.000	.05970	.08450	-.01130	.00260	.08690	.01950	-.00960	.01790	-.01200	.25558
1.204	2.020	.07330	.05140	-.00580	.01620	.07000	.02280	-.00470	.01150	-.00540	.25142
1.205	3.040	.03660	.03850	-.00540	.02120	.06030	.02670	-.00750	.01060	-.00460	.24706
1.205	4.030	.00410	.02710	-.00430	.02570	.05200	.03050	-.00890	.00890	-.00280	.24500
1.206	6.060	.03510	.00830	-.00100	.03540	.04060	.03510	-.01350	.01160	-.00550	.24078
	8.090	-.06270	-.C0610	.00200	.05230	.03770	.03750	-.01540	.01190	-.00570	.23822
	GRADIENT	-.03131	-.01212	.00170	.00596	-.00583	.00288	-.00091	.00055	.00056	-.00018

CALSPAN T14-053   01 T1 S1   1A36   (AUF119)   (26 SEP 73)

REFERENCE DATA

SREF =	2690.0004 FT.SQU	XMRP =	953.0001 INCHES
LREF =	1328.0002 INCHES	YMRP =	.0000 INCHES
BREF =	1328.0002 INCHES	ZMRP =	400.0000 INCHES
SCALE =	.0190		

PARAMETRIC DATA

| BETA = | .000 | MPSRA = | .000 |
| POWER = | .000 | RUDDER = | .000 |

RUN NO. 119/ 0   RN/L = 2.79   GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.902	-6.140	-.05480	-.02280	.01020	.00500	.04840	.02750	-.34110	.10360	.10860	.11828
.903	-4.040	.01480	.01210	.00600	.00600	.04050	.02580	-.21100	.04840	.05330	.12136
.902	-2.060	.08550	.04840	.00070	.00680	.03670	.02060	-.09120	-.00270	-.00180	.12464
.903	.010	.14940	.08000	-.00680	.00590	.03590	.01900	.02650	-.05010	-.04550	.12381
.902	2.010	.19850	.10210	-.01920	.00530	.04440	.02680	.1335C	-.08760	-.08320	.12071
.902	4.000	.25280	.12590	-.03000	.00600	.05050	.03390	.23720	-.12270	-.11840	.11789
.905	6.020	.29250	.14130	-.04000	.00600	.05480	.03050	.33350	-.15090	-.14670	.11594
.902	7.990	.34180	.16350	-.04540	.00590	.05110	.02300	.43550	-.18740	-.18310	.11264
	GRADIENT	.02923	.01395	-.00456	-.00013	.00138	.00111	.05565	-.02120	-.02126	-.00054

CAL SPAN T14-053   01 T1 S1   IA36   (AUF120)   (26 SEP 73)

REFERENCE DATA

SREF	=	2690.0004 FT.SQU	XMRP	=	953.0001	INCHES
LREF	=	1328.0002 INCHES	YMRP	=	.0000	INCHES
BREF	=	1328.0002 INCHES	ZMRP	=	400.0000	INCHES
SCALE	=	.0190				

PARAMETRIC DATA

ALPHA	=	.000	MPSRA =	.000
POWER	=	.000	RUDDER =	.000

RUN NO. 120/ 0   RN/L = .21   GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	CNW	CBW	CHW	CHR	CHEI	CHEO	CN	CLMF	CLM	CAF
.904	-8.090	.21470	.09840	-.04710	-.01790	.08470	.03910	-.04440	-.01680	-.01140	.11334
.902	-6.070	.22650	.10630	-.04570	-.00030	.07750	.03440	.00620	-.03930	-.03430	.11600
.902	-4.040	.21460	.10170	-.02360	-.02290	.06940	.02900	.01420	-.04490	-.04030	.11941
.903	-3.040	.21220	.09940	-.02510	.02020	.06490	.02690	.01780	-.04620	-.04170	.12136
.901	-2.030	.20170	.09510	-.01950	.01740	.05920	.02520	.02250	-.04820	-.04370	.12353
.900	2.030	.3370	.07120	.00070	-.00340	.02370	.01490	.02260	-.04920	-.04450	.12255
.903	3.040	.11300	.06380	.00630	-.00960	.01950	.01410	.01850	-.04760	-.04260	.11739
.903	4.040	.09510	.05630	.01220	-.00740	.01450	.01270	.01060	-.04230	-.03730	.12210
.903	6.070	.05590	.04260	.02040	.01720	.01020	.01350	.00160	-.03560	-.03010	.11481
.900	8.100	.02210	.02850	.02700	-.02970	.00640	.01550	.01440	-.02630	-.02030	.10685
	GRADIENT	-.01554	-.00573	.00515	-.00430	-.00727	-.00212	-.00021	.00007	.00013	-.00005

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

(RUFA01)   (15 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = .901   ALPHA (1) = -8.088

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0330	.2580	.3210	.0950	-.1890	-.2060
30.000	.1770	.3680	.4750	.1990	-.2040	-.2050
60.000	.3780	-.1810	-.3590	-.3440	-.2070	-.1970
90.000	-.4980	-.5850	-.3430	-.2110	-.1980	-.1990
120.000	-.1970		-.2100	-.2030	-.1960	-.2020
150.000	-.2040	-.2090	-.2040	-.2010	-.2030	-.1820
180.000	-.2160	-.2010		-.2050	-.1830	-.1850
210.000	-.2040	-.1940	-.1910	-.1840	-.1910	-.2030
240.000	-.1940	-.2380	-.2010	-.1860	-.2090	-.1990
270.000	-.2480	-.2390	-.2410	-.2060	-.2050	-.1920
300.000	-.2370	-.2240		-.2470	-.2280	-.2050
330.000	-.2600	-.1310	-.2360	-.2620	-.2250	-.1920
360.000	.0330	.2580	.3210	.0950	-.1890	-.2060

MACH (1) = .900   ALPHA (2) = -4.049

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0100	.2550	.3030	-.0250	-.1890	-.1940
30.000	.1940	.3510	.3600	-.1050	-.1840	-.1950
60.000	.3130	-.2010	-.3130	-.3060	-.1980	-.1850
90.000	-.4590	-.5650	-.3040	-.2010	-.1900	-.1970
120.000	-.2020		-.2030	-.1900	-.1950	-.1980
150.000	-.1950	-.2070	-.1950	-.1980	-.2030	-.1810
180.000	-.2000	-.1990		-.2010	-.1790	-.1780
210.000	-.1950	-.2010	-.2010	-.1850	-.1800	-.1970
240.000	-.2040	-.2240	-.2010	-.1850	-.1960	-.1930
270.000	-.2270	-.2160	-.2170	-.2030	-.1890	-.2020
300.000	-.2270	-.2130		-.2370	-.2190	-.2000
330.000	-.2650	-.1500	-.2270	-.2480	-.2250	-.1780
360.000	.0100	.2550	.3030	-.0250	-.1890	-.1940

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(RUFA01)

CAL T14-053 1A36 O2 + T1 + S1 UPPER HPS NOZZLE

MACH (1) = .900   ALPHA (3) = .013   DEPENDENT VARIABLE CP

SECTION (1)UPPER HPS NOZZLE

X/DE	.0580	.2320	.4060	.5900	.7540	.9280
PHI						
.000	.0070	.2320	.2880	-.0360	-.1760	-.1780
30.000	.1320	.2830	.2870	.1010	-.1700	-.1930
60.000	.2270	-.1820	.2650	-.2770	-.2040	-.1750
90.000	-.3910	-.4800	-.2670	-.1990	-.1710	-.1840
120.000	-.1810		-.1950	-.1720	-.1810	-.1830
150.000	-.1790	-.1930	-.1760	-.1790	-.1860	-.1630
180.000	-.2020	-.1740		-.1840	-.1680	-.1580
210.000	-.1710	-.1790	-.1800	-.1680	-.1570	-.1950
240.000	-.1910	-.2050	-.1840	-.1630	-.1960	-.1710
270.000	-.1890	-.1890	-.1900	-.2000	-.1720	-.1780
300.000	-.2170	-.2150		-.2230	-.1980	-.1770
330.000	-.2550	-.1450	-.2030	-.2370	-.2100	-.1670
360.000	.0070	.2320	.2880	-.0360	-.1760	-.1780

MACH (1) = .899   ALPHA (4) = 4.005   DEPENDENT VARIABLE CP

SECTION (1)UPPER HPS NOZZLE

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0170	.2520	.2980	-.0360	-.1490	-.1580
30.000	.1420	.2570	.2430	-.0480	-.1520	-.1890
60.000	.1430	-.1580	.2380	-.2460	-.1970	-.1630
90.000	-.3490	-.4340	.2540	-.1910	-.1660	-.1830
120.000	.1690		.1870	-.1660	-.1790	-.1670
150.000	-.1700	-.1910	.1660	-.1780	-.1750	-.1570
180.000	-.1920	-.1620		-.1700	-.1610	-.1470
210.000	-.1620	-.1890	-.1820	-.1490	-.1460	-.1930
240.000	-.1810	-.1760	-.1680	-.1460	-.1890	-.1610
270.000	-.1780	-.1680	-.1760	-.1880	-.1660	-.1790
300.000	-.2030	-.2050		-.2120	-.1980	-.1680
330.000	-.2520	-.1190	-.1740	-.2270	-.1900	-.1470
360.000	.0170	.2520	.2980	-.0360	-.1490	-.1580

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (RUFA01)

MACH (1) = .899   ALPHA (5) = 6.026

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0140	.2610	.3360	-.0490	-.1680	-.1640
30.000	.1280	.2460	.2100	.0260	-.1580	-.2000
60.000	.1270	-.1550	-.2180	-.2370	-.2020	-.1520
90.000	-.3340	-.3900	-.2-30	-.1950	-.1510	-.1680
120.000	-.1590		-.2000	-.1550	-.1650	-.1780
150.000	-.1710	-.1920	-.1490	-.1680	-.1820	-.1490
180.000	-.1850	-.1530		-.1780	-.1510	-.1550
210.000	-.1580	-.1750	-.1730	-.1530	-.1550	-.1920
240.000	-.1670	-.1080	-.1760	-.1570	-.1910	-.1470
270.000	-.1840	-.1720	-.1760	-.1910	-.1470	-.1670
300.000	-.2110	-.2050		-.2010	-.1780	-.1740
330.000	-.2570	-.1230	-.1610	-.2080	-.1960	-.1620
360.000	.0140	.2610	.3360	-.0490	-.1580	-.1640

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + Si UPPER MPS NOZZLE   (RUFA02) (15 NOV 73)

REFERENCE DATA

SREF	=	49.4000	SQ.FT.	XMRP =	158.0000 INCHES
LREF	=	90.7000	INCHES	YMRP =	.0000 INCHES
BREF	=	90.7000	INCHES	ZMRP =	.0000 INCHES
SCALE	=	.0190	SCALE		

PARAMETRIC DATA

ALPHA	=	.000	POWER = .000
GP1	=	11.000	GY1 = -9.000
GP2	=	.000	GY2 = -9.000
GP3	=	.000	GY3 = .000

MACH (1) = .901   BETA (1) = -6.079

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.1250	-.0950	-.1420	-.1790	-.1580	-.1550
30.000	-.0660	-.0350	-.1750	-.1650	-.1530	-.2000
60.000	-.1440	-.1940	-.1840	-.1610	-.2050	-.1630
90.000	-.1780	-.1870	-.1570	-.1480	-.1740	-.1990
120.000	-.1650		-.1910	-.1640	-.1830	-.1810
150.000	-.1610	-.1950	-.1680	-.1910	-.1690	-.1660
180.000	-.1980	-.1530		-.1750	-.1740	-.1510
210.900	-.1570	-.1900	-.1870	-.1610	-.1640	-.1900
240.000	-.1810	-.1860	-.1810	-.1600	-.1940	-.1630
270.000		-.1750	-.1610	-.1950	-.1630	-.1890
300.003	-.2170	-.1370		-.1770	-.1870	-.1810
330.000	-.0700	-.1020	-.0560	-.1350	-.1940	-.1600
360.000	-.1250	-.0950	-.1420	-.1790	-.1580	-.1550

MACH (1) = .900   BETA (2) = -3.049

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.0870	.0560	.0150	-.1440	-.1610	-.1510
30.000	.0400	.0450	.1490	-.0990	-.1660	-.1770
60.000	-.0300	-.2300	-.2060	-.2020	-.1810	-.1530
90.000	-.2250	-.2370	-.1830	-.1790	-.1520	-.1700
120.000	-.1480		-.1840	-.1530	-.1670	-.1690
150.000	-.1530	-.1840	-.1640	-.1630	-.1750	-.1530
180.000	-.1820	-.1550		-.1700	-.1600	-.1450
210.000	-.1610	-.1700	-.1620	-.1590	-.1530	-.1760
240.000	-.1720	-.1710	-.1630	-.1520	-.1810	-.1610
270.000	-.1860	-.1710	-.1630	-.1790	-.1620	-.1680
300.000	-.1980	-.1450		-.1760	-.1690	-.1670
330.000	-.1470	.0340	.0200	-.1760	-.1670	-.1560
360.000	-.0870	.0560	.0150	-.1440	-.1610	-.1510

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL T14-053 (1A3G)　　　　(RUFA02)

CA: T14-053 1A36 G2 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = .901　　BETA (3) = .000

SECTION (1) UPPER MPS NOZZLE　　　　DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0150	.2320	.2790	-.0170	-.1670	-.1730
30.000	.1480	.2730	.2980	.0810	-.1680	-.1960
60.000	.2030	-.1860	-.2720	-.2720	-.1930	-.1680
90.000	-.3810	-.4850	-.2800	-.1900	-.1650	-.1970
120.000	-.1800		-.1930	-.1690	-.1880	-.1760
150.000	-.1750	.1960	.1760	-.1860	-.1790	-.1650
180.000	-.2030	-.1760		-.1740	-.1700	-.1590
210.000	-.1770	-.1880	-.1690	-.1650	-.1600	-.1930
240.000	-.1920	-.1980	-.1710	-.1620	-.1880	-.1720
270.000	-.1880	-.1920	-.1930	-.1910	-.1750	-.1940
300.000	-.2130	-.2160		-.2170	-.2050	-.1720
330.000	-.2590	-.1310	-.1770	-.2440	-.1950	-.1670
360.000	.0150	.2320	.2790	-.0170	-.1670	-.1730

MACH (1) = .900　　BETA (4) = 3.051

SECTION (1) UPPER MPS NOZZLE　　　　DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0210	.2620	.2880	.2940	-.1770	-.1950
30.000	.2040	.3410	.2810	.2340	-.2000	-.2290
60.000	.3420	-.0080	-.2810	-.3350	-.2430	-.1980
90.000	-.4610	-.5080	-.4440	-.2230	-.1900	-.1980
120.000	-.2460		-.2210	-.1940	-.2020	-.2070
150.000	-.2100	-.2200	-.1990	-.2050	-.2020	-.1900
180.000	-.2090	-.1910		-.2010	-.1090	-.1820
210.000	-.1920	-.2050	-.2030	-.1800	-.1810	-.2210
240.000	-.2110	-.2090	-.2010	-.1870	-.2170	-.1910
270.000	-.2110	-.2160	-.2170	-.2200	-.1980	-.2050
300.000	-.2160	-.2630		-.2420	-.2550	-.1960
330.000	-.3500	-.3590	-.3940	-.2890	-.2330	-.2220
360.000	.0210	.2620	.2880	.2940	-.1770	-.1950

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(RUFA02)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = .901   BETA (5) = 6.089

SECTION (1)UPPER MPS NOZZLE

DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0560	.3130	.3160	.3830	.0070	-.2170
30.000	.3130	.4940	.4010	.3480	-.1820	-.2490
60.000	.5110	.2630	-.2370	-.4050	-.2940	-.2320
90.000	-.4610	-.4380	-.4910	-.2620	-.2250	-.2320
120.000	-.3120		-.2340	-.2140	-.2340	-.2280
150.000	-.2510	-.2380	-.2450	-.2390	-.2240	-.2060
180.000	-.24:0	-.2190		-.2280	-.2070	-.2090
210.000	-.2100	-.2260	-.2370	-.2040	-.2070	-.2250
240.000	-.2400	-.2260	-.2240	-.2130	-.2320	-.2120
270.000	-.233C	-.2470	-.2530	-.2350	-.2300	-.2280
300.000	-.2820	-.3750		-.2740	-.2740	-.2380
330.000	-.3650	-.4840	-.4900	-.4150	-.2500	-.2300
360.000	.0560	.3130	.3160	.3830	.0070	-.2170

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

(RUFA03:   (15 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF =	90.7000 INCHES	YMRP = .0000 INCHES
BREF =	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE =	.0190 SCALE	

PARAMETRIC DATA

BETA =	.000	POWER =	1.000
UPR =	36.700	SRMPR =	2.330
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) =   .897   ALPHA (1) =   -8.088

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.0780	.2600	.3090	.0830	-.2510	-.2720
30.000	.1560	.3610	.4620	.5510	-.2640	-.3240
60.000	.2720	-.3540	-.4180	-.4480	-.3360	-.2940
90.000	-.4590	-.6320	-.4660	-.3410	-.2920	-.2810
120.000	-.3650		-.3340	-.2850	-.2810	-.2710
150.000	-.2960	-.3380	-.2870	-.2830	-.2690	-.2650
180.000	-.3330	-.2840		-.2650	-.2650	-.2580
210.000	-.2830	-.2770	-.2770	-.2600	-.2560	-.3390
240.000	-.2900	-.2670	-.2650	-.2500	-.3390	-.2850
270.000	-.3180	-.3130	-.3100	-.3300	-.2820	-.2810
300.000	-.5220	-.3000		-.3640	-.3200	-.2590
330.000	-.4920	-.0740	-.2630	-.3390	-.2960	-.2870
360.000	-.0780	.2600	.3090	.0830	-.2510	-.2720

MACH (1) =   .899   ALPHA (2) =   -4.038

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.0660	.2440	.2950	.0450	-.2410	-.2550
30.000	-.1850	.3530	.3590	.3840	-.2320	-.2530
60.000	.2720	-.3150	-.3570	-.3660	-.2570	-.2560
90.000	-.3870	-.5860	-.3810	-.2600	-.2630	-.2670
120.000	-.3030		-.2510	-.2550	-.2610	-.2400
150.000	-.2470	-.2550	-.2560	-.2640	-.2360	-.2450
180.000	-.2440	-.2530		-.2330	-.2390	-.2340
210.000	-.2570	-.2540	-.2550	-.2350	-.2290	-.2500
240.000	-.2680	-.2380	-.2320	-.2310	-.2430	-.2560
270.000	-.2700	-.2920	-.2610	-.2600	-.2490	-.2530
300.000	-.4690	-.2830		-.3040	-.2900	-.2290
330.000	-.5250	-.2030	-.2750	-.3250	-.2480	-.2650
360.000	-.0660	.2440	.2950	-.0450	-.2410	-.2550

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + T1 + S1 UPPER MPS NOZZLE   (RUFA03)

MACH (1) = .901   ALPHA (3) = .001   DEPENDENT VARIABLE CP

SECTION (1)UPPER MPS NOZZLE

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.0860	.2210	.2880	-.0770	-.2120	-.2260
30.000	.1180	.2800	.2750	.3010	-.2080	-.2320
60.000	.2030	-.2910	-.3340	-.3320	-.2380	-.2350
90.000	-.3640	-.5770	-.3570	-.2340	-.2420	-.2440
120.000	-.2730		-.2340	-.2430	-.2390	-.2290
150.000	-.2330	-.2350	-.2400	-.2380	-.2260	-.2350
180.000	-.2290	-.2370		-.2250	-.2280	-.2220
210.000	-.2380	-.2360	-.2350	-.2270	-.2160	-.2180
240.000	-.2420	-.2230	-.2230	-.2090	-.2120	-.2350
270.000	-.2260	-.2700	-.2250	-.2350	-.2290	-.2330
300.000	-.4300	-.2760		-.2890	-.2600	-.2160
330.000	-.4980	-.1920	-.2460	-.2980	-.2300	-.2480
360.000	-.0860	.2210	.2880	-.0770	-.2120	-.2260

MACH (1) = .902   ALPHA (4) = 4.026   DEPENDENT VARIABLE CP

SECTION (1)UPPER MPS NOZZLE

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.0640	.2440	.3230	-.0620	-.2210	-.2110
30.000	.1120	.2600	.2140	.0580	-.1960	-.2270
60.000	.1050	-.2630	-.3230	-.3090	-.2250	-.2290
90.000	-.3580	-.5790	-.3340	-.2300	-.2340	-.2540
120.000	-.2560		-.2240	-.2330	-.2480	-.2250
150.000	-.2240	-.2230	-.2260	-.2460	-.2220	-.2260
180.000	-.2190	-.2270		-.2190	-.2230	-.2130
210.000	-.2270	-.2430	-.2450	-.2210	-.2130	-.2240
240.000	-.2580	-.2170	-.2160	-.2080	-.2110	-.2200
270.000	-.2290	-.2430	-.2180	-.2270	-.2180	-.2390
300.000	-.4170	-.2850		-.2900	-.2610	-.2110
330.000	-.4880	-.1590	-.2210	-.2960	-.2310	-.2140
360.000	-.0640	.2440	.3230	-.0620	-.2210	-.2110

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(RUFA03)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = .898   ALPHA (5) = 6.021   DEPENDENT VARIABLE CP

SECTION (1) UPPER MPS NOZZLE

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.0920	.2500	.3520	-.0540	-.2190	-.2300
30.000	.0680	.2460	.1900	.0220	-.2100	-.2700
60.000	.0910	-.2660	-.3330	-.3120	-.2640	-.2340
90.000	-.3620	-.5700	-.3410	-.2670	-.2390	-.2230
120.000	-.2610		-.2690	-.2380	-.2220	-.2340
150.000	-.2320	-.2700	-.2370	-.2230	-.2360	-.2420
180.000	-.2700	-.2390		-.2320	-.2400	-.2260
210.000	-.2410	-.2190	-.2260	-.2370	-.2230	-.2710
240.000	-.2300	-.2310	-.2320	-.2140	-.2580	-.2270
270.000	-.2380	-.2330	-.2240	-.2690	-.2320	-.2260
300.000	-.4200	-.2910		-.2920	-.2430	-.2220
330.000	-.4960	-.1870	-.2120	-.2720	-.2400	-.2200
360.000	-.0920	.2500	.3520	-.0540	-.2190	-.2300

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

(RUFA04)   (15 NOV 73)

PARAMETRIC DATA

ALPHA =	.000	POWER =	1.000
OPR =	36.200	SRMPR =	2.330
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) = .899   BETA (1) = -6.078

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2680	-.1440	-.1950	-.2400	-.2250	-.2140
30.000	-.1480	-.0140	-.2250	-.2360	-.2120	-.2550
60.000	-.2490	-.2430	-.2360	-.2220	-.2610	-.2480
90.000	-.2470	-.2430	-.2280	-.2560	-.2430	-.2560
120.000	-.2420		-.2580	-.2500	-.2580	-.2430
150.000	-.2490	-.2670	-.2610	-.2600	-.2440	-.2340
180.000	-.2580	-.2600		-.2420	-.2290	-.2260
210.000	-.2510	-.2440	-.2580	-.2120	-.2020	-.2480
240.000	-.2400	-.2330	-.2400	-.2120	-.2450	-.2520
270.000	-.2460	-.2450	-.2160	-.2580	-.2480	-.2510
300.000	-.4160	-.2060		-.2650	-.2510	-.2300
330.000	-.1600	.1370	-.0710	-.2080	-.2320	-.2220
360.000	-.2680	-.1440	-.1950	-.2400	-.2250	-.2140

MACH (1) = .900   BETA (2) = -3.049

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2550	.0290	.0360	-.1990	-.2080	-.2120
30.000	-.0240	.2040	.1570	-.1080	-.2080	-.2490
60.000	-.0660	-.2560	.2920	-.2730	-.2410	-.2220
90.000	-.3240	-.3370	-.2630	-.2390	-.2280	-.2370
120.000	-.2290		-.2460	-.2390	-.2340	-.2270
150.000	-.2330	-.2470	-.2360	-.2270	-.2260	-.2140
180.000	-.2480	-.2360		-.2260	-.2070	-.2140
210.000	-.2220	-.2270	-.2310	-.2030	-.2020	-.2340
240.000	-.2340	-.2160	-.2170	-.2090	-.2370	-.2340
270.000	-.2020	-.2290	-.2100	-.2460	-.2240	-.2280
300.000	-.3730	-.2190		-.2830	-.2400	-.2350
330.000	-.3340	-.0200	.0150	-.2030	-.2040	-.2050
360.000	-.2550	.0290	.0360	-.1990	-.2080	-.2120

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

(RUFA04)

CAL T14-053 IA36 O2 + TI + SI UPPER MPS NOZZLE

MACH (1) = .899   BETA (3) = .000

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.1050	.2110	.2710	-.0640	-.2290	-.2270
30.000	.1080	.2730	.2880	.1340	-.2100	-.2560
60.000	.1770	-.2940	.3510	.3410	-.2480	-.2430
90.000	-.3700	-.6050	.3590	-.2550	-.2470	-.2500
120.000	-.2550		.2530	-.2450	-.2450	-.2340
150.000	-.2400	-.2550	-.2470	-.2470	-.2320	-.2330
180.000	-.2440	-.2430		-.2270	-.2290	-.2280
210.000	-.2440	-.2330	-.2400	-.2330	-.2230	-.2450
240.000	-.2510	-.2300	-.2250	-.2190	-.2440	-.2390
270.000	-.2470	-.2350	-.2280	-.2540	-.2390	-.2380
300.000	-.4120	-.2900		-.2970	-.2570	-.2200
330.000	-.5020	-.1920	-.2540	-.3020	-.2360	-.2270
360.000	-.1050	.2110	.2710	-.0640	-.2290	-.2270

MACH (1) = .898   BETA (4) = 3.051

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.0570	.2590	.2860	.3570	-.2340	-.2580
30.000	.1890	.3440	.2800	.2610	-.2460	-.2840
60.000	.3590	.1890	-.3350	.4170	-.3120	-.2770
90.000	-.4150	-.5570	-.5480	-.2850	-.2830	-.2800
120.000	-.2860		-.2710	-.2720	-.2760	-.2550
150.000	-.3050	-.2720	-.2700	-.2770	-.2560	-.2460
180.000	-.2740	-.2740		-.2460	-.2380	-.2510
210.000	-.2700	-.2720	-.2720	-.2340	-.2490	-.2680
240.000	-.2620	-.2490	-.2460	-.2470	-.2660	-.2640
270.000	-.2640	-.2590	-.2850	-.2720	-.2770	-.2530
300.000	-.4250	-.3760		-.2970	-.3140	-.2410
330.000	-.6430	-.4710	-.5630	-.3980	-.2910	-.2710
360.000	-.0570	.2590	.2860	.3570	-.2340	-.2590

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A35 O2 + T1 + S1 UPPER MPS NOZZLE   (RUFA04)

MACH (1) = .899   BETA (5) = 6.088

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0040	.3190	.3300	.4510	-.0030	-.2790
30.000	.3230	.5370	.3950	.3400	-.2440	-.3150
60.000	.5340	.0900	.2780	.4940	-.3550	-.3150
90.000	-.5060	-.5330	.5820	-.3160	-.3030	-.3010
120.000	-.3550		-.2330	-.2940	-.3020	-.2730
150.000	-.3520	-.3020	-.3150	-.3030	-.2720	-.2670
180.000	-.2320	-.3000		-.2580	-.2710	-.2730
210.000	-.2870	-.2970	-.2980	-.2660	-.2610	-.2720
240.000	-.2890	-.2630	-.2620	-.2680	-.2530	-.2660
270.000	-.3180	-.3150	-.3170	-.2830	-.2700	-.2870
300.000	-.5520	-.4840		-.3400	-.3430	-.2610
330.000	-.6320	-.5730	-.6650	-.5270	-.7090	-.2910
360.000	.0040	-.3190	.3300	.4610	.0030	-.2790

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (15 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190 SCALE			

PARAMETRIC DATA   (RUFA05)

BETA	=	.000	POWER	=	.000
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	.000

MACH (1) = 1.203   ALPHA (1) = -8.101

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.1810	.4030	.4300	.5980	-.2370	-.2940
30.000	.3020	.4130	.5280	.4600	-.2370	-.3090
60.000	.5910	.0510	-.4160	.3840	-.3300	-.2910
90.000	-.3590	-.3760	-.4440	.3070	-.2930	-.2940
120.000	-.3140	-.2990	-.3090	-.2950	-.2960	-.2850
150.000	-.2960	-.2990	-.3050	-.2940	-.2880	-.2940
180.000	-.2950	-.2870		-.2980	-.2890	-.2760
210.000	-.2860	-.3060	-.3020	-.2950	-.2760	-.3090
240.000	-.3180	-.3180	-.3020	-.3000	-.3130	-.2900
270.000	-.3650	-.4020	-.3380	-.3240	-.3290	-.3080
300.000	-.3270	-.1870		-.3130	-.3370	-.3100
330.000	-.2310	.1750	-.0430	-.0320	-.3190	-.3020
360.000	.1810	.4030	.4300	.5980	-.2370	-.2940

MACH (1) = 1.202   ALPHA (2) = -4.038

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.1080	.2990	.3400	.4740	-.2440	-.2950
30.000	.2600	.3320	.4710	.4000	-.2450	-.3070
60.000	.5220	-.1260	-.3760	-.3570	-.3330	-.2730
90.000	-.4440	-.4500	-.4030	-.3120	-.2900	-.2940
120.000	-.2930	-.3090	-.3060	-.2900	-.2950	-.2910
150.000	-.2820	-.2870	-.3000	-.2930	-.2870	-.2810
180.000	-.3040	-.3020		-.2920	-.2810	-.2750
210.000	-.2940	-.3020	-.2950	-.2800	-.2760	-.3070
240.000	-.3140	-.3130	-.2960	-.2850	-.3120	-.2980
270.000	-.3570	-.3550	-.3350	-.3150	-.3220	-.3020
300.000	-.3500	-.3020		-.3290	-.3040	-.2970
330.000	-.2380	-.0970	.0990	.1440	-.2990	-.2960
360.000	.1080	.2990	.3400	.4740	-.2440	-.2950

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE   (PUFA05)

MACH (1) = 1.203   ALPHA (3) = -.011

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0180	.2130	.2370	.3890	.2540	.2850
30.000	.2410	.3530	.3940	.3490	.2470	.3140
60.000	-.3380	-.1830	-.3590	-.3350	-.3050	-.2900
90.000	-.4590	-.5270	-.3660	-.3130	-.2920	-.2960
120.000	-.3030	-.3110	-.2910	-.2910	-.2960	-.2920
150.000	-.2820	-.2900	-.2910	-.2920	-.2910	-.2770
180.000	-.3110	-.3030		-.2910	-.2750	-.2730
210.000	-.2930	-.3130	-.2940	-.2800	-.2740	-.3110
240.000	-.3130	-.3270	-.2960	-.2780	-.3150	-.2930
270.000	-.3390	-.1900	-.3190	-.3130	-.3120	-.3030
300.000	-.3120	-.1050		-.3270	-.3190	-.3000
330.000	-.2790	.2130	-.1550	-.2060	-.2880	-.2850
360.000	.0180		.2370	.3890	-.2540	.2850

MACH (1) = 1.203   ALPHA (4) = 4.003

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0200	.2140	.2150	.2920	.2750	.2920
30.000	.1620	.2480	.2500	.2360	.2600	.3200
60.000	-.1560	-.1660	-.3590	-.3190	-.3160	-.3020
90.000	-.4380	-.5310	-.3400	-.3200	-.3050	-.3040
120.000	-.3220	-.3170	-.3250	-.3050	-.3020	-.2970
150.000	-.2780	-.7030	-.3070	-.3010	-.2970	-.2910
180.000	-.3150	-.3140		-.2970	-.2930	-.2740
210.000	-.3040	-.3030	-.2980	-.2900	-.2740	-.3160
240.000	-.3150	-.3530	-.2990	-.2810	-.3200	-.3040
270.000	-.3370	-.2490	-.3320	-.3130	-.3100	-.3010
300.000	-.3210	-.1200		-.3480	-.3150	-.3080
330.000	-.2640	.2140	-.1810	-.2440	-.2970	-.3000
360.000	.0200		.2150	.2920	.2750	.2920

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36.

MACH (1) =   1.202   ALPHA (5) =   6.018   (RUFA05)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

SECTION (1)UPPER MPS NOZZLE

DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0830	.3030	.3250	.2260	-.2760	-.2940
30.000	.1580	.1750	.1100	.1410	-.2730	-.3230
60.000	.0610	-.0990	-.3250	-.3190	-.3220	-.3030
90.000	-.4050	-.4580	-.3320	-.3250	-.3130	-.3010
120.000	-.3210		-.3300	-.3120	-.3010	-.3040
150.000	-.2800	-.3290	-.3160	-.3000	-.3020	-.2930
180.000	-.3270	-.3120		-.3030	-.2920	-.2810
210.000	-.3160	-.3110	-.2980	-.2920	-.2840	-.3290
240.000	-.3050	-.3130	-.3010	-.2820	-.3310	-.3140
270.000	-.3330	-.3510	-.3360	-.3180	-.3100	-.3020
300.000	-.3140	-.2530		-.3700	-.3100	-.3130
320.000	.3210	-.0870	-.1580	.2610	-.3030	-.2930
360.000	.0830	.3030	.3250	.2260	-.2760	-.2940

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)   PAGE 125

CAL T14-053 IA36 02 + T1 + S1 UPPER MPS NOZZLE   (RUFAC6)   (15 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF	= 49.4000 SQ.FT.	XMRP =	158.0000 INCHES	ALPHA = .000 POWER = -9.000
LREF	= 90.7000 INCHES	YMRP =	.0000 INCHES	GP1 = 11.000 GY1 = -9.000
BREF	= 90.7000 INCHES	ZMRP =	.0000 INCHES	GP2 = .000 GY2 = -9.000
SCALE	= .0190 SCALE			GP3 = .000 GY3 = .000

MACH (1) =   1.202   BETA (1) =   -6.079

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.1520	-.0090	.1020	-.1970	-.3010	-.2780
30.000	-.0250	-.2300	.3200	-.1210	-.2650	-.3170
60.000	-.1980	-.3540	-.3370	-.2810	-.3170	-.2960
90.000	-.4610	-.4320	-.2750	-.3110	-.2940	-.3100
120.000	-.2970		-.3160	-.2980	-.3070	-.2910
150.000	-.2760	.3190	-.2950	-.3040	-.2950	-.2690
180.000	-.3170	-.2950		-.2920	-.2830	-.2770
210.000	-.3040	-.3050	-.3050	-.2910	-.2780	-.3190
240.000	-.3240	-.3150	-.2950	-.2840	-.3220	-.2900
270.000	-.3640	-.4020	-.3430	-.3100	-.2990	-.3150
300.000	-.2660	-.1430		-.2810	-.3150	-.2930
330.000	-.0910	.1870	.0570	-.0610	-.2710	-.2680
360.000	-.1520	-.0090	.1020	-.1970	-.3010	-.2780

MACH (1) =   1.202   BETA (2) =   -3.051

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.1120	.1140	.2100	.0710	-.2860	-.2680
30.000	-.1070	.2480	.4300	.0810	-.2770	-.3160
60.000	-.0850	-.3310	-.3990	-.3160	-.3170	-.2930
90.000	-.4900	-.5160	-.3200	-.3210	-.2950	-.3040
120.000	-.3150		-.3200	-.2910	-.3000	-.2960
150.000	-.2810	.3180	-.3170	-.2920	-.2850	-.2860
180.000	-.3170	-.2300	-.2830	-.2820	-.2870	-.2700
210.000	-.2940	-.3040	-.3000	-.2890	-.2770	-.3200
240.000	-.3160	-.3030	-.2970	-.2850	-.3240	-.2910
270.000	-.3460	-.3670	-.3170	-.3110	-.3050	-.3050
300.000	-.3250	-.1930		-.2600	-.3430	-.2810
330.000	-.1480	.0820	.0700	-.0500	-.2940	-.2800
360.000	-.1120	.1140	.2100	-.0110	-.2680	-.2690

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 ((A36)

(RUFA06)

CAL T14-053 IA36 02 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = 1.202   BETA (3) = .000

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0220	.2140	.0000	.4000	.2540	-.2820
30.000	.2300	.0000	.4070	.3520	.2470	-.3120
60.000	.0000	-.1910	.3670	-.3350	.3100	-.2890
90.000	-.4400	-.5260	.3550	.3120	.2870	.0000
120.000	-.3050		.3130	-.2890	.0000	-.2900
150.000	-.2770	-.3090	.2310	.0000	.0000	-.2700
180.000	-.3090	-.2880		.2300	.2600	-.2720
210.000	-.2950	.0000		-.2820	-.2770	-.3120
240.000	.0000	-.3050	.0000	-.2810	-.2730	-.3120
270.000	-.3350	-.3300	-.2870	-.3100	-.3140	-.2910
300.000	-.3110	-.1930	-.3080	-.3670	-.3070	.0000
330.000	-.2800	-.1180	-.1340	.0000	-.2870	-.2860
360.000	.0220	.2140	.0000	-.4000	-.2540	-.2820

MACH (1) = 1.203   BETA (4) = 3.051

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.1390	.3370	.3210	.3560	-.1080	-.3090
30.000	.3250	.3930	.3990	.3190	-.2580	-.3430
60.000	.5240	.1510	.3470	-.3900	-.1610	-.2970
90.000	-.4750	-.5760	-.5250	-.3340	-.3040	-.3080
120.000	-.3780		.3310	-.3540	-.3040	-.3010
150.000	-.2950	-.3190	.3260	-.3060	-.3000	-.2920
180.000	-.3310	-.2930		-.3010	-.2910	-.2600
210.000	-.3040	-.3060		-.2930	-.2620	-.2230
240.000	-.3100	-.3010	-.3140	-.2940	-.3020	-.2240
270.000	-.3400	-.3500	-.3120	-.3120	-.3090	-.3000
300.000	-.2600	-.3030		-.4210	-.3140	-.3160
330.000	-.3050	-.3230		-.3210	-.3140	-.3090
360.000	.1390	.3370			-.1080	-.3090

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-C53 (1A36)

CAL T14-C53 1A36 02 + T1 + S1 UPPER MPS NOZZLE   (PUFACS)

MACH (1) = 1.203   BETA (5) = 6.079

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.2110	.4340	.3990	.3840	.3820	-.3250
30.000	.4750	.5500	.5260	.7850	.2570	-.3430
60.000	.7300	.4930	-.3430	-.3930	.3690	-.3150
90.000	.4640	.5880	-.5660	-.3320	-.3190	-.314
120.000	-.3650		-.3400	-.3520	-.3130	-.306
150.000	-.3080	-.3500	-.3330	-.3160	-.3090	-.2990
180.000	-.3370	-.3110		-.3030	-.3030	-.2650
210.000	-.3090	-.3090	-.3180	-.2900	-.3020	-.2890
240.000	-.3130	-.3050	-.3030	-.2850	-.2830	-.3080
270.000	-.3080	-.3100	-.3050	-.3090	-.3270	-.3080
300.000	-.3610	-.3290		-.3540	-.3190	-.3120
330.000	.3950	.4280	.4760	.4890	.3550	-.3560
360.000	.2110	.4340	.3990	.3840	.3820	-.3250

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE   (RUFA07)   (15 NOV 75)

PARAMETRIC DATA

BETA	=	.000	POWER = 1.000
OPR	=	28.310	SRMPR = 2.020
GP1	=	11.000	GY1 = -9.000
GP2	=	.000	GY2 = -9.000
GP3	=	.000	GY3 = -9.000

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP = .0000 INCHES
BREF	=	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE	=	.0190 SCALE	

MACH (1) = 1.199   ALPHA (1) = -8.108

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.1770	.3940	.4200	.6520	-.2380	-.3040
30.000	.2970	.4200	.5350	.4830	-.2500	-.3030
60.000	.5830	-.0500	-.4390	-.3960	-.3120	-.3070
90.000	-.5750	-.5400	-.4510	-.3010	-.3020	-.3020
120.000	-.4060		-.3100	-.3080	-.3210	-.2980
150.000	-.3310	-.3350	-.2990	-.3040	-.2870	-.2930
180.000	-.3200	-.2800		-.2320	-.2670	-.2510
210.000	-.3000	-.3000		-.2810	-.2640	-.3020
240.000	-.3610	-.2790	-.2480	-.2640	-.3060	-.2970
270.000	-.5550	-.4960	-.2930	-.2960	-.2930	-.3140
300.000	-.3930	-.1840	-.4230	-.3480	-.3800	-.3010
330.000	-.2240	.0570	.0060	.0040	-.3400	-.3110
360.000	.1770	.3940	.4200	.6520	-.2380	-.3040

MACH (1) = 1.198   ALPHA (2) = -4.075

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0910	.3150	.3170	.5160	-.2420	-.2790
30.000	.2570	.3990	.4850	.4180	-.2300	-.3000
60.000	.4560	-.1740	-.3760	-.3480	-.3170	-.2800
90.000	.5440	-.5290	-.3520	-.3000	-.2660	-.2970
120.000	-.3900		-.3130	-.2800	-.2950	-.2730
150.000	-.3010	-.3300	-.2890	-.2950	-.2950	-.2730
180.000	-.3060	-.2750		-.2550	-.2620	-.2560
210.000	-.2820	-.2870	-.2540	-.2520	-.2520	-.3020
240.000	-.3120	-.2550	-.2720	-.2600	-.3140	-.2910
270.000	-.4300	-.4270	-.3570	-.2690	-.2890	-.3140
300.000	-.4070	-.1500		-.2550	-.3550	-.2900
330.000	-.2290	.0190	.0520	-.1570	-.2920	-.2820
360.000	.0910	.3150	.3170	.5160	-.2420	-.2790

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 (IA36 O2 + T1 + S1 UPPER MPS NOZZLE)

MACH (1) =   1.197   ALPHA (3) =   -.023

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4050	.5800	.7540	.9280
PHI						
.000	.0130	.2180	.2360	.4430	.2560	.2790
30.000	.2280	.3580	.4210	.3490	.2450	.2920
60.000	.2330	-.2460	-.3640	.3320	-.3050	-.2940
90.000	-.5060	-.5340	-.3320	-.2990	-.2320	.2910
120.000	-.3860	-.3180	-.3110	-.2930	.2350	.2730
150.000	-.2930	.3180	.2920	.2310	-.2810	-.2750
180.000	-.3040	-.2700	-.2290	-.2290	-.2650	-.2590
210.000	-.2880	-.2650	-.2520	-.2660	-.2480	-.3000
240.000	-.2870	-.2370	-.2640	-.2590	-.3080	-.3220
270.000	-.4150	-.3870	-.3040	-.2770	-.2960	-.3000
300.000	-.3890	-.2040	-.3530	-.3530	-.3500	-.2810
330.000	-.2790	-.0660	-.1100	-.2150	-.2690	-.2800
360.000	.0130	.2180	.2360	.4430	.2560	.2790

MACH (1) =   1.196   ALPHA (4) =   4.017

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0000	.2250	.2170	.1890	-.2650	-.2930
30.000	.1400	.2650	.2320	.2210	-.2760	.0000
60.000	.0990	-.3260	-.3340	-.3400	.0000	-.2790
90.000	-.4250	-.5220	-.3230	.0000	-.2840	-.2880
120.000	-.3470	.0000	.0000	-.2890	-.3010	-.3170
150.000	-.2930	-.2390	-.2770	-.2800	-.3020	-.2610
180.000	.0000	-.2390	-.2400	-.2690	-.2530	-.2830
210.000	-.2970	-.2920	-.3260	-.2530	-.2800	.0000
240.000	-.2710	-.2930	-.2960	-.2900	.0000	-.2060
270.000	-.3900	-.3500	-.2960	.0000	-.2920	-.3140
300.000	-.3970	-.2690	-.1290	-.3470	-.3420	-.2990
330.000	-.3160	.0000	-.2170	-.2360	-.3070	-.2780
360.000	.0000	.2250	.2170	.1890	-.2650	-.2930

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (RUFA07)

MACH (1) =   1.200   ALPHA (5) =   6.028

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0000	.3200	.2980	.0580	-.2780	-.2680
30.000	.1650	.1750	.1030	.1250	-.2570	-.0000
60.000	.0160	-.2770	-.3240	-.3070	.0000	-.2670
90.000	-.3640	-.4610	-.2610	-.0000	-.2720	-.2760
120.000	-.3210		.0000	-.2830	-.2560	-.2990
150.000	-.2630		-.2610	-.2740	-.2950	-.2680
180.000	.0000	-.2150		-.2860	-.2670	-.2650
210.000	-.2930	-.3050	-.2170	-.2780	-.2580	.0000
240.000	-.2700	-.2840	-.3090	-.2580	-.0000	-.2880
270.000	-.3740	-.3510	-.2560	-.0000	-.2870	-.3010
300.000	-.3830	-.2470		-.3260	-.3180	-.2860
330.000	-.7950	.0000	-.1270	-.2470	-.2980	-.2940
360.000	.0000	.3200	.2980	.0580	-.2780	-.2580

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE   (RUFACO) (15 NOV 73)

REFERENCE DATA

					PARAMETRIC DATA		
SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES	ALPHA = .000	POWER = 1.000
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES	OPR = 28.310	SRMPR = 2.020
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES	GP1 = 11.000	GY1 = -9.000
SCALE	=	.0190 SCALE				GP2 = .000	GY2 = -9.000
						GP3 = .000	GY3 = -9.000

MACH (1) = 1.194   BETA (1) = -6.074

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.1420	.0000	.1000	-.2730	-.3100	-.2920
30.000	-.0320	.2620	.1730	-.1360	-.2830	-.3130
60.000	-.2410	-.3830	-.3480	-.2860	-.3230	-.3160
90.000	-.4040	-.4510	-.2710	-.3160	-.3130	-.3280
120.000	-.2960		-.3350	-.3220	-.3360	-.3080
150.000	-.3200	-.3380	-.3280	-.3280	-.3100	-.2950
180.000	-.2870	-.2510		-.2820	-.2870	-.2830
210.000	-.3430	-.3340		-.2850	-.2810	-.3170
240.000	-.3300	-.2940	-.2590	-.2920	-.3130	-.3150
270.000	-.4870	-.4410	-.3160	-.3260	-.3170	-.3300
300.000	-.2730	-.1430	-.3750	-.3150	-.3470	-.2960
330.000	-.0930	.1970	.08?0	-.0670	-.2510	-.2950
360.000	-.1420	.0000	1.?0	-.2730	-.3100	-.2920

MACH (1) = 1.194   BETA (2) = -3.044

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0000	.1060	.2180	-.1130	-.2850	-.2990
30.000	.1080	.2540	.4150	-.1300	-.2950	.0000
60.000	-.1360	.4220	.4140	-.3470	.0000	-.3230
90.000	-.4930	-.5350	-.3330	.0000	-.3150	-.3220
120.000	-.3060		-.3250	-.3240	-.3260	-.3280
150.000	-.3410	.0000	.3250	-.3240	-.3270	-.2910
180.000	.0000	-.2830		-.2670	-.2840	-.3030
210.000	-.3300	-.3080		-.2750	-.2900	.0000
240.000	-.3220	-.2950		-.2970	.0000	-.3220
270.000	-.4810	-.4?90	-.3?40	.0000	-.3160	-.3300
300.000	-.3340	-.2?00		-.3010	-.3810	-.3120
330.000	-.1520	.0?00	.0910	-.1010	-.3280	-.2850
360.000	.0000	.1060	.2180	-.1130	-.2650	-.2990

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

(RUFA08)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = 1.199   BETA (3) = .000

SECTION (1) UPPER MPS NOZZLE

DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0260	.2110	.2410	.2910	-.2470	-.2650
30.000	.2220	.3620	.3680	.3650	-.2350	-.2690
60.000	.2410	-.3310	-.3560	-.3190	-.2860	-.2980
90.000	.4710	-.5310	-.3200	-.2780	-.2990	-.2920
120.000	.3720		-.2880	-.2960	-.2930	-.2790
150.000	-.2780	-.2840	-.2980	-.2690	-.2890	-.2620
180.000	-.2650	-.2760		-.2570	-.2540	-.2460
210.000	-.2910	-.2890	-.2520	-.2440	-.2380	-.2880
240.000	-.2750	-.2580	-.2790	-.2480	-.2940	-.3010
270.000	-.4080	-.3760	-.3020	-.2580	-.2960	-.3040
300.000	-.3810	-.1900		-.3620	-.3390	-.2790
330.000	-.2790	.0590	-.1090	-.2160	-.2820	-.2760
360.000	.0260	.2110	.2410	.2910	-.2470	-.2650

MACH (1) = 1.195   BETA (4) = 3.049

SECTION (1) UPPER MPS NOZZLE

DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.1100	.3300	.3220	.4580	-.1510	-.3610
30.000	.3000	.4000	.3500	.3350	-.2720	-.3110
60.000	.4860	-.1230	.3440	.3950	-.3120	-.3010
90.000	-.5000	.5430	.5310	-.2970	-.3110	-.3000
120.000	-.3570		.3030	-.3130	-.3100	-.2910
150.000	-.3490	-.3170	.3150	-.2960	-.2830	-.2760
180.000	-.3080	-.3200		-.2370	-.2680	-.2820
210.000	-.3270	-.2880	-.2570	-.2560	-.3120	-.3040
240.000	-.3030	-.2790	-.2670	-.3710	-.3180	-.3200
270.000	-.3150	-.3080	-.4460	-.2590	-.3230	-.3100
300.000	-.4490	-.3200		-.3850	-.3320	-.2890
330.000	-.3860	-.2210	-.4080	-.4020	-.3000	-.3000
360.000	.1100	.3300	.3220	.4580	-.1510	-.3610

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A3))

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (RUFA08)

MACH (1) = 1.197   BETA (5) = 6.079

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.1960	.4380	.3950	.4190	.3120	-.3530
30.000	.4840	.5630	.4730	.3820	.2650	-.3110
60.000	.7270	.1730	.3440	-.4060	-.3130	-.3160
90.000	-.5590	-.5860	.5720	-.2950	-.3010	-.3010
120.000	-.3780		.3020	-.3050	-.3210	-.3100
150.000	-.3860	-.3170	.3080	-.3010	-.2830	-.2830
180.000	-.3270	-.3340		-.2170	-.2550	-.2460
210.000	-.3150	-.2900	-.2960	-.2560	-.2550	-.3100
240.000	-.3090	-.2910	-.2660	-.2900	-.2560	-.3100
270.000	-.3100	-.3020	-.2720	-.2720	-.3370	-.2900
300.000	-.5150	-.4230		-.3320	-.3020	-.3090
330.000	-.4140	-.3970	-.4650	-.3300	-.3300	-.2840
360.000	.1960	.4380	.3950	.4190	.3120	-.3530

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL T14-053 (IA36)　　　　

CAL T14-053 IA36 O2 + TI + S1 LOWER LH MPS NOZ.　　　　(RUFB01)　　(15 NOV 73)

REFERENCE DATA

					PARAMETRIC DATA		
SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES	BETA = .000	POWER = .000
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES	GP1 = 11.000	GY1 = -9.000
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES	GP2 = .000	GY2 = -9.000
SCALE	=	.0190 SCALE				GP3 = .000	GY3 = .000

MACH (1) =　.901　　ALPHA (1) =　-8.088

SECTION (1)LOWER LH MPS NOZ.　　　DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2150	-.1990	-.1970	-.2020	-.1850	-.1860
30.000	-.2040	-.2010	-.2000	-.1850	-.1830	-.2070
60.000	-.1920	-.1920	-.1710	-.1800	-.2060	-.1950
90.000	-.2020	-.1850	-.1810	-.2110	-.1980	-.1890
120.000	-.1850	-.1840	-.2100	-.2060	-.1940	-.2000
150.000	-.1800	-.2080	-.2020	-.1960	-.2060	-.1810
180.000	-.2060	-.2040	-.1930	-.2050	-.1830	-.1790
210.000	-.1930	-.1900	-.2050	-.1810	-.1800	-.2110
240.000	-.2070	-.2000	-.1880	-.1830	-.2070	-.1920
270.000	-.2010	-.1780	-.1860	-.2090	-.1890	-.1980
300.000	-.1870	-.1910	-.2100	-.1970	-.1950	-.2010
330.000	-.1940	-.2100	-.1930	-.1930	-.2020	-.1810
360.000	-.2150	-.1990	-.1970	-.2020	-.1650	-.1860

MACH (1) =　.900　　ALPHA (2) =　-4.049

SECTION (1)LOWER LH MPS NOZ.　　　DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2070	-.1950	-.2010	-.1980	-.1790	-.1760
30.000	-.1930	-.2030	-.1980	-.1830	-.1780	-.2000
60.000	-.1830	-.1880	-.1740	-.1790	-.2020	-.1910
90.000	-.2020	-.1900	-.1710	-.2000	-.1970	-.1990
120.000	-.1830	-.1780	-.2030	-.1960	-.2020	-.1980
150.000	-.1830	-.1990	-.1990	-.2030	-.1940	-.1770
180.000	-.2030	-.1920	-.2010	-.2000	-.1760	-.1720
210.000	-.1920	-.2020	-.1770	-.1760	-.1740	-.2030
240.000	-.1920	-.1940	-.1810	-.1760	-.2010	-.1810
270.000	-.2040	-.1810	-.1810	-.2030	-.1810	-.1950
300.000	-.1860	-.1770	-.2010	-.1650	-.1920	-.1950
330.000	-.1970	-.2020	-.1870	-.1880	-.2020	-.1790
360.000	-.2070	-.1950	-.2010	-.1980	-.1790	-.1760

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + TI + SI LOWER LH MPS NOZ.   (RUFBCI)

MACH (1) =   .900   ALPHA (3) =   .013

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2030	-.1730	-.1840	-.1850	-.1630	-.1550
30.000	-.1740	-.1870	-.1830	-.1630	-.1570	-.1940
60.000	-.1650	-.1780	-.1640	-.1580	-.1920	-.1730
90.000	-.1840	-.1630	-.1600	-.1990	-.1700	-.1800
120.000	-.1660	-.1670	-.1940	-.1720	-.1820	-.1830
150.000	-.1600	-.1990	-.1770	-.1880	-.1800	-.1670
180.000	-.1950	-.1740	-.1800	-.1800	-.1640	-.1590
210.000	-.1850	-.1850	-.1770	-.1670	-.1600	-.1970
240.000	-.1830	-.1830	-.1650	-.1590	-.2030	-.1730
270.000	-.1920	-.1730	-.1620	-.1930	-.1740	-.1630
300.000	-.1770	-.1640	-.1960	-.1740	-.1860	-.1850
330.000	-.1700	-.1940	-.1760	-.1660	-.1870	-.1610
360.000	-.2030	-.1730	-.1840	-.1850	-.1630	-.1550

MACH (1) =   .899   ALPHA (4) = 4.005

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.1970	-.1630	-.1850	-.1690	-.1590	-.1430
30.000	-.1690	-.1920	-.1660	-.1470	-.1410	-.1880
60.000	-.1710	-.1610	-.1520	-.1410	-.1690	-.1610
90.000	-.1680	-.1470	-.1480	-.1920	-.1630	-.1830
120.000	-.1480	-.1510	-.1690	-.1640	-.1800	-.1650
150.000	-.1450	-.1900	-.1690	-.1810	-.1630	-.1570
180.000	-.1650	-.1680	-.1830	-.1650	-.1450	-.1480
210.000	-.1700	-.1860	-.1720	-.1510	-.1510	-.1900
240.000	-.1830	-.1700	-.1490	-.1500	-.1940	-.1690
270.000	-.1760	-.1440	-.1480	-.1910	-.1710	-.1870
300.000	-.1690	-.1510	-.1890	-.1750	-.1800	-.1700
330.000	-.1650	-.1930	-.1650	-.1810	-.1750	-.1560
360.000	-.1970	-.1630	-.1850	-.1690	-.1590	-.1430

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (RUFB01)

MACH (1) = .899   ALPHA (5) = 6.006

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.1990	-.1540	-.1750	-.1770	-.1470	-.1530
30.000	-.1550	-.1750	-.1750	-.1520	-.1500	-.2000
60.000	-.1620	-.1690	-.1470	-.1450	-.1900	-.1450
90.000	-.1750	-.1570	-.1520	-.18?0	-.1520	-.1740
120.000	-.1520	-.1560	-.1930	-.1520	-.1720	-.1750
150.000	-.1530	-.1550	-.1510	-.1670	-.1710	-.1?00
180.000	-.1920	-.1540	-.1710	-.1770	-.1530	-.1560
210.000	-.1640	-.1720	-.1770	-.1570	-.1560	-.1920
240.000	-.1720	-.1860	-.1690	-.1570	-.2030	-.1590
270.000	-.1820	-.1610	-.1530	-.1990	-.1590	-.1720
300.000	-.1560	-.1580	-.2040	-.1580	-.1700	-.1790
330.000	-.1700	-.1540	-.1510	-.1740	-.1820	-.1420
360.000	-.1990	-.1540	-.1750	-.1770	-.1470	-.1530

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 137

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

(RUFB02)   (15 NOV 73)

PARAMETRIC DATA

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF =	90.7000 INCHES	YMRP = .0000 INCHES
BREF =	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE =	.0190 SCALE	

ALPHA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) =   .901   BETA (1) = -6.079

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.1940	-.1690	-.1900	-.1740	-.1750	-.1620
30.000	-.1710	-.1940	-.1800	-.1620	-.1630	-.1870
60.000	-.1970	-.1800	-.1650	-.1590	-.1910	-.1600
90.000	-.1790	-.1680	-.1570	-.1990	-.1630	-.1860
120.000	-.1650	-.1660	-.1950	-.1660	-.1930	-.1810
150.000	-.1650	-.2000	-.1690	-.1930	-.1850	-.1660
180.000	-.1860	-.1690	-.1920	-.1860	-.1630	-.1570
210.000	-.1760	-.1890	-.1850	-.1620	-.1590	-.1880
240.000	-.1890	-.1870	-.1590	-.1630	-.2010	-.1730
270.000	-.1800	-.1610	-.1530	-.1930	-.1730	-.1930
300.000	-.1680	-.1540	-.1910	-.1730	-.1850	-.1820
330.000	-.1670	-.1930	-.1690	-.1950	-.1710	-.1700
350.000	-.1940	-.1690	-.1900	-.1740	-.1750	-.1620

MACH (1) =   .900   BETA (2) = -3.049

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4050	.5800	.7540	.9280
PHI						
.000	-.1870	-.1570	-.1650	-.1710	-.1630	-.1480
30.000	-.1540	-.1700	-.1650	-.1590	-.1550	-.1840
60.000	-.1640	-.1630	-.1490	-.1420	-.1810	-.1570
90.000	-.1760	-.1630	-.1600	-.1820	-.1630	-.1610
120.000	-.1630	-.1650	-.1870	-.1690	-.1780	-.1690
150.000	-.1580	-.1910	-.1720	-.1810	-.1730	-.1580
180.000	-.1810	-.1730	-.1700	-.1780	-.1650	-.1550
210.000	-.1680	-.1770	-.1650	-.1610	-.1580	-.1820
240.000	-.1740	-.1720	-.1680	-.1540	-.1580	-.1590
270.000	-.1720	-.1620	-.1550	-.1630	-.1630	-.1770
300.000	-.1550	-.1630	-.1500	-.1600	-.1590	-.1740
330.000	-.1510	-.1890	-.1710	-.1720	-.1710	-.1500
360.000	-.1870	-.1570	-.1660	-.1710	-.1630	-.1480

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S: LOWER LH MPS NOZ.   (PUFB02)

MACH (1) = .901   BETA (3) = .000

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.1950	-.1740	-.1870	-.1750	-.1680	-.1530
30.000	-.1710	-.1900	-.1720	-.1620	-.1580	-.1970
60.000	-.1760	-.1670	-.1610	-.1550	-.1920	-.1720
90.000	-.1750	-.1640	-.1590	-.1590	-.1740	-.1880
120.000	-.1650	-.1650	-.1920	-.1660	-.1900	-.1710
150.000	-.1580	-.1900	-.1790	-.1660	-.1750	-.1620
180.000	-.1800	-.1780	-.1370	-.1710	-.1650	-.1590
210.000	-.1800	-.1950	-.1790	-.1640	-.1610	-.1920
240.000	-.1950	-.1800	-.1650	-.1570	-.1860	-.1710
270.000	-.1820	-.1610	-.1600	-.1920	-.1730	-.1980
300.000	-.1710	-.1630	-.2000	-.1740	-.1860	-.1770
330.000	-.1660	-.1980	-.1770	-.1830	-.1750	-.1640
360.000	-.1950	-.1740	-.1870	-.1750	-.1680	-.1580

MACH (1) = .900   BETA (4) = 3.051

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2210	-.1930	-.2080	-.2030	-.1890	-.1840
30.000	-.1920	-.2110	-.2030	-.1910	-.1820	-.2160
60.000	-.2000	-.1970	-.1890	-.1830	-.2190	-.1930
90.000	-.2020	-.1920	-.1850	-.2140	-.1900	-.2020
120.000	-.1860	-.1850	-.1920	-.1910	-.2050	-.2010
150.000	-.1820	-.2170	-.2050	-.2050	-.1960	-.1670
180.000	-.2190	-.2020	-.1930	-.1970	-.1870	-.1860
210.000	-.1980	-.2010	-.1900	-.1810	-.2110	-.2160
240.000	-.2040	-.1930	-.1800	-.2160	-.2060	-.1850
270.000	-.2200	-.1850	-.1870	-.1970	-.1840	-.1980
300.000	-.2020	-.1950	-.2210	-.2030	-.2040	-.2070
330.000	-.1970	-.2240	-.1990	-.2030	-.1930	-.1910
360.000	-.2210	-.1930	-.2060	-.2030	-.1890	-.1840

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (RUFB02)

MACH (1) = .901   BETA (5) = 6.089

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2410	-.2050	-.2380	-.2260	-.2160	-.2130
30.000	-.2120	-.2300	-.2270	-.2130	-.2130	-.2240
60.000	-.2220	-.2050	-.2050	-.2020	-.2280	-.2060
90.000	-.2110	-.2030	-.1930	-.2250	-.2100	-.2290
120.000	-.1930	-.2040	-.2240	-.2060	-.2230	-.2180
150.000	-.2090	-.2220	-.2150	-.2280	-.2100	-.2000
180.000	-.2170	-.2130	-.2000	-.2090	-.2020	-.1990
210.000	-.2090	-.2170	-.2120	-.2000	-.2070	-.2330
240.000	-.2270	-.2140	-.2020	-.2050	-.2330	-.2080
270.000	-.2340	-.2090	-.2040	-.2300	-.2040	-.2250
300.000	-.2260	-.2140	-.2300	-.2010	-.2310	-.2250
330.000	-.2210	-.2360	-.2040	-.2400	-.2210	-.2120
360.000	-.2410	-.2050	-.2380	-.2260	-.2160	-.2130

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

PAGE 140

CAL T14-053 IA36 C2 + T1 + S1 LOWER LH MPS NOZ.

(RUFB03)   (15 NOV 73)

REFERENCE DATA

SPEF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF =	90.7000 INCHES	YMRP = .0000 INCHES
BREF =	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE =	.0190 SCALE	

PARAMETRIC DATA

BETA	=		POWER	= 1.000
CPR	=	36.200	SAMPR	= 2.330
GP1	=	11.000	GY1	= -9.000
GP2	=	.000	GY2	= -9.000
GP3	=	.000	GY3	= -9.000

MACH (1) = .897   ALPHA (1) = -8.088

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3190	-.2780	-.2760	-.2630	-.2640	-.2620
30.000	-.2800	-.2760	-.2630	-.2610	-.2600	-.3300
60.000	-.2700	-.2590	-.2580	-.2540	-.3320	-.2800
90.000	-.2690	-.2580	-.2570	-.3160	-.2900	-.2750
120.000	-.2630	-.2600	-.3340	-.2790	-.2740	-.2630
150.000	-.2230	-.3370	-.2810	-.2740	-.2560	-.2530
180.000	-.2900	-.2830	-.2860	-.2630	-.2520	-.2520
210.000	-.2770	-.2650	-.2770	-.2630	-.2520	-.2520
240.000	-.2960	-.2700	-.2750	-.2650	-.3300	-.2830
270.000	-.2770	-.2650	-.2510	-.3340	-.2830	-.2760
300.000	-.2620	-.2480	-.3270	-.2830	-.2770	-.2650
330.000	-.2650	-.3190	-.2770	-.2760	-.2590	-.2480
360.000	-.3190	-.2780	-.2760	-.2630	-.2640	-.2620

MACH (1) = .899   ALPHA (2) = -4.038

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/CE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2490	-.2420	-.2580	-.2290	-.2370	-.2330
30.000	-.2450	-.2580	-.2300	-.2300	-.2260	-.2490
60.000	-.2570	-.2330	-.2360	-.2380	-.2450	-.2520
90.000	-.2450	-.2290	-.2400	-.2430	-.2510	-.2570
120.000	-.2330	-.2300	-.2430	-.2430	-.2430	-.2380
150.000	-.2150	-.2360	-.2520	-.2550	-.2430	-.2330
180.000	-.2340	-.2520	-.2590	-.2330	-.2370	-.2300
210.000	-.2440	-.2690	-.2370	-.2370	-.2530	-.2350
240.000	-.2550	-.2310	-.2450	-.2450	-.2350	-.2650
270.000	-.2550	-.2410	-.2350	-.2450	-.2600	-.2650
300.000	-.2570	-.2300	-.2420	-.2420	-.2600	-.2510
330.000	-.2470	-.2390	-.2390	-.2230	-.2370	-.2470
360.000	-.2490	-.2420	-.2590	-.2290	-.2370	-.2330

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-C53 (IA36)

(RUFBC7)

CAL T14-C53 IA36 02 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) = .901   ALPHA (3) = .001

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2300	-.2340	-.2370	-.2220	-.2200	-.2170
30.000	-.2340	-.2410	-.2280	-.2290	-.2190	-.2340
60.000	-.2330	-.2180	-.2250	-.2140	-.2660	-.2360
90.000	-.2330	-.2200	-.2090	-.2200	-.2340	-.2340
120.000	-.2250	-.2040	-.2130	-.2350	-.2190	-.2250
150.000	-.1970	-.2130	-.2370	-.2140	-.2100	-.2260
180.000	-.2160	-.2360	-.2350	-.2230	-.2210	-.2080
210.000	-.2370	-.2230	-.2250	-.2260	-.2090	-.2350
240.000	-.2450	-.2260	-.2250	-.2140	-.2390	-.2330
270.000	-.2290	-.2170	-.2130	-.2300	-.2430	-.2420
300.000	-.2270	-.2140	-.2260	-.2260	-.2360	-.2240
330.000	-.2200	-.2220	-.2510	-.2170	-.2140	-.2320
360.000	-.2300	-.2340	-.2370	-.2220	-.2230	-.2170

MACH (1) = .902   ALPHA (4) = 4.026

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0560	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2250	-.2190	-.2470	-.2470	-.2240	-.2050
30.000	-.2270	-.2440	-.2150	-.2250	-.2200	-.2250
60.000	-.2460	-.2130	-.2240	-.2010	-.2170	-.2250
90.000	-.2220	-.2260	-.2010	-.2160	-.2240	-.2460
120.000	-.2100	-.1970	-.2140	-.2190	-.2450	-.2150
150.000	-.1950	-.2140	-.2200	-.2190	-.2090	-.2100
180.000	-.2120	-.2210	-.2300	-.2010	-.2000	-.2000
210.000	-.2320	-.2470	-.2100	-.2150	-.2200	-.2270
240.000	-.2510	-.2110	-.2190	-.2100	-.2050	-.2320
270.000	-.2250	-.2000	-.1980	-.2150	-.2350	-.2400
300.000	-.2230	-.1980	-.2100	-.2200	-.2200	-.2230
330.000	-.2110	-.2180	-.2170	-.2170	-.2200	-.2200
360.000	-.2250	-.2190	-.2470	-.2170	-.2200	-.2050

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.   (RUFB03)

MACH (1) = .898   ALPHA (5) = 6.021

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/OE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2670	-.2250	-.2280	-.2260	-.2410	-.2190
30.000	-.2310	-.2260	-.2240	-.2370	-.2190	-.2690
60.000	-.2210	-.2220	-.2350	-.2140	-.2640	-.2350
90.000	-.2300	-.2290	-.2110	-.2620	-.2330	-.2240
120.000	-.2310	-.2160	-.2500	-.2300	-.2230	-.2260
150.000	-.2050	-.2550	-.2260	-.2210	-.2180	-.2320
180.000	-.2570	-.2330	-.2220	-.2160	-.2250	-.2120
210.000	-.2340	-.2250	-.2220	-.2230	-.2140	-.2670
240.000	-.2300	-.2220	-.2220	-.2100	-.2670	-.2370
270.000	-.2330	-.2190	-.2150	-.2650	-.2370	-.2640
300.000	-.2390	-.2110	-.2650	-.2310	-.2220	-.2280
330.000	-.2230	-.2590	-.2270	-.2220	-.2340	-.2320
360.000	-.2670	-.2250	-.2280	-.2260	-.2410	-.2190

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL T14-053 (1A36)　　　　

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

(RUFB04)　(15 NOV 73)

REFERENCE DATA

SREF	= 49.4000 SQ.FT.	XMRP	= 158.0000 INCHES
LREF	= 90.7000 INCHES	YMRP	= .0000 INCHES
BREF	= 90.7000 INCHES	ZMRP	= .0000 INCHES
SCALE	= .0190 SCALE		

PARAMETRIC DATA

ALPHA	= .000	POWER	= 1.000
OPR	= 36.200	SRMPR	= 2.330
GP1	= 11.000	GY1	= -9.000
GP2	= .000	GY2	= -9.000
GP3	= .000	GY3	= -9.000

MACH (1) = .899　　BETA (1) = -6.078

SECTION (1)LOWER LH MPS NOZ.　　　DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2670	-.2570	-.2670	-.2430	-.2370	-.2220
30.000	-.2640	-.2650	-.2450	-.2300	-.2170	-.2590
60.000	-.2680	-.2440	-.2370	-.2550	-.2550	-.2490
90.000	-.2660	-.2460	-.2220	-.2540	-.2520	-.2510
120.000	-.2650	-.2520	-.2710	-.2630	-.2620	-.2390
150.000	-.1910	-.2480	-.2600	-.2720	-.2500	-.2320
180.000	-.1380	-.2350	-.2580	-.2500	-.2380	-.2210
210.000	-.2300	-.2470	-.2440	-.2450	-.2340	-.2570
240.000	-.2720	-.2630	-.2450	-.2350	-.2690	-.2490
270.000	-.3090	-.2615	-.2310	-.2550	-.2430	-.2590
300.000	-.2630	-.2230	-.2430	-.2420	-.2530	-.2420
330.000	-.2470	-.2540	-.2490	-.2670	-.2340	-.2350
360.000	-.2670	-.2570	-.2570	-.2430	-.2370	-.2220

MACH (1) = .900　　BETA (2) = -3.049

SECTION (1)LOWER LH MPS NOZ.　　　DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2410	-.2280	-.2300	-.2230	-.2140	-.2100
30.000	-.2280	-.2390	-.2150	-.2180	-.2150	-.2450
60.000	-.2410	-.2140	-.2180	-.2190	-.2410	-.2320
90.000	-.2370	-.2170	-.2140	-.2360	-.2340	-.2310
120.000	-.2320	-.2340	-.2520	-.2360	-.2380	-.2150
150.000	-.1910	-.2360	-.2420	-.2470	-.2120	-.2170
180.000	-.1570	-.2220	-.2420	-.2240	-.2130	-.2090
210.000	-.2230	-.2350	-.2160	-.2260	-.2150	-.2490
240.000	-.2530	-.2230	-.2250	-.2120	-.2160	-.2290
270.000	-.2560	-.2140	-.2060	-.2350	-.2320	-.2370
300.000	-.2380	-.2030	-.2290	-.2230	-.2320	-.2230
330.000	-.2250	-.2420	-.2250	-.2370	-.2190	-.2160
360.000	-.2410	-.2280	-.2330	-.2230	-.2140	-.2100

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (RUFB04)

MACH (1) = .899   BETA (3) = .000

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2510	-.2320	-.2420	-.2270	-.2310	-.2250
30.000	-.2390	-.2380	-.2250	-.2330	-.2220	-.2540
60.000	-.2500	-.2280	-.2270	-.2220	-.2480	-.2460
90.000	-.2310	-.2280	-.2190	-.2440	-.2420	-.2410
120.000	-.2300	-.2150	-.2400	-.2400	-.2440	-.2240
150.000	-.2050	-.2440	-.2380	-.2410	-.2210	-.2250
180.000	-.2240	-.2390	-.2450	-.2250	-.2210	-.2160
210.000	-.2380	-.2470	-.2280	-.2190	-.2140	-.2570
240.000	-.2490	-.2280	-.2250	-.2150	-.2520	-.2400
270.000	-.2310	-.2190	-.2140	-.2530	-.2400	-.2440
300.000	-.2170	-.2110	-.2400	-.2420	-.2430	-.2290
330.000	-.2280	-.2470	-.2310	-.2420	-.2290	-.2240
360.000	-.2510	-.2320	-.2420	-.2270	-.2310	-.2250

MACH (1) = .898   BETA (4) = 3.051

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2680	-.2620	-.2750	-.2490	-.2370	-.2440
30.000	-.2670	-.2780	-.2440	-.2340	-.2440	-.2660
60.000	-.2830	-.2490	-.2370	-.2420	-.2590	-.2630
90.000	-.2710	-.25.0	-.250C	-.2700	-.2650	-.2700
120.000	-.2460	-.2520	-.2700	-.2590	-.2730	-.2400
150.000	-.2320	-.2700	-.2630	-.2660	-.2410	-.2330
180.000	-.2560	-.2650	-.2670	-.2400	-.2350	-.2450
210.000	-.2680	-.2680	-.2330	-.2340	-.2470	-.2530
240.000	-.2810	-.2400	-.2330	-.2440	-.2600	-.2630
270.000	-.2520	-.2400	-.2430	-.2680	-.2600	-.2720
300.000	-.2270	-.2410	-.2640	-.2590	-.2730	-.2450
330.000	-.2410	-.2590	-.2620	-.2730	-.2410	-.2390
350.000	-.2680	-.2620	-.2750	-.2490	-.2370	-.2440

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA35)

CAL T14-053 IA36 C2 + T1 + S1 LOWER LH MPS NOZ.   (RUFBO4)

MACH (1) = .899   BETA (5) = 6.088

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2870	-.2730	-.2930	-.2650	-.2610	-.2710
30.000	-.3010	-.3070	-.2630	-.2780	-.2720	-.2810
60.000	-.2960	-.2650	-.2730	-.2730	-.2850	-.2830
90.000	-.3090	-.2890	-.2810	-.2880	-.2790	-.2920
120.000	-.2730	-.2780	-.2850	-.2810	-.2950	-.2550
150.000	-.2430	-.2860	-.2850	-.2900	-.2590	-.2600
180.000	-.2780	-.2800	-.2950	-.2610	-.2630	-.2630
210.000	-.2870	-.2950	-.2590	-.2590	-.2620	-.2790
240.000	-.3000	-.2660	-.2500	-.2590	-.2790	-.2800
270.000	-.2710	-.2580	-.2590	-.2790	-.2810	-.2860
300.000	-.2650	-.2690	-.2760	-.2810	-.2920	-.2620
330.000	-.2730	-.2750	-.2770	-.2880	-.2570	-.2620
360.000	-.2870	-.2730	-.2930	-.2650	-.2610	-.2710

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.

REFERENCE DATA   (RUFB05)   (15 NOV 73)

PARAMETRIC DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190 SCALE			

BETA	=	.000	POWER	=	.000
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	.000

MACH (1) =   1.203   ALPHA (1) =   -8.101

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2830	-.2860	-.2810	-.2890	-.2860	-.2720
30.000	-.2630	-.2770	-.2910	-.2810	-.2670	-.2880
60.000	-.2590	-.2980	-.2920	-.2660	-.2850	-.2550
90.000	-.2980	-.2980	-.2740	-.2850	-.2730	-.2680
120.000	-.2840	-.2730	-.2890	-.2750	-.2720	-.2880
150.000	-.2630	-.2880	-.2750	-.2750	-.2860	-.2770
180.000	-.2600	-.2750	-.2740	-.2870	-.2790	-.2640
210.000	-.2800	-.2740	-.2850	-.2760	-.2570	-.2830
240.000	-.2800	-.2820	-.2720	-.2640	-.2390	-.2850
270.000	-.2960	-.2720	-.2640	-.2970	-.2810	-.2850
300.000	-.2680	-.2640	-.3020	-.2820	-.2810	-.2910
330.000	-.2570	-.2970	-.2820	-.2800	-.2910	-.2900
360.000	-.2630	-.2860	-.2810	-.2890	-.2860	-.2720

MACH (1) =   1.202   ALPHA (2) =   -4.038

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2820	-.2770	-.2750	-.2870	-.2770	-.2740
30.000	-.2640	-.2740	-.2910	-.2770	-.2740	-.2900
60.000	-.2600	-.2860	-.2880	-.2690	-.2900	-.2650
90.000	-.2950	-.2850	-.2840	-.2850	-.2830	-.2800
120.000	-.2730	-.2770	-.2890	-.2740	-.2630	-.2800
150.000	-.2610	-.2660	-.2760	-.2610	-.2770	-.2620
180.000	-.2700	-.2770	-.2650	-.2810	-.2660	-.2610
210.000	-.2820	-.2550	-.2800	-.2670	-.2610	-.3000
240.000	-.2740	-.2780	-.2660	-.2600	-.3040	-.2840
270.000	-.2640	-.2690	-.2610	-.3050	-.2840	-.2750
300.000	-.2650	-.2620	-.2620	-.2840	-.2750	-.2930
330.000	-.2650	-.2620	-.2650	-.2700	-.2620	-.2850
360.000	-.2630	-.2770	-.2750	-.2870	-.2770	-.2740

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA3E)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (RUFB05)

MACH (1) = 1.203   ALPHA (3) = -.011

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2790	-.2700	-.2740	-.2890	-.2770	-.2750
30.000	-.2590	-.2720	-.2900	-.2770	-.2740	-.2930
60.000	-.2570	-.2830	-.2760	-.2770	-.2940	-.2630
90.000	-.2810	-.2790	-.2740	-.2910	-.2660	-.2630
120.000	-.2660	-.2710	-.2870	-.2650	-.2630	-.2790
150.000	-.2570	-.2890	-.2650	-.2630	-.2700	-.2630
180.000	-.2730	-.2680	-.2680	-.2750	-.2630	-.2610
210.000	-.2760	-.2620	-.2780	-.2640	-.2590	-.2830
240.000	-.2750	-.2750	-.2630	-.2590	-.3060	-.2820
270.000	-.2900	-.2630	-.2610	-.3030	-.2820	-.2740
300.000	-.2800	-.2600	-.3070	-.2820	-.2750	-.2910
330.000	-.2690	-.2980	-.2740	-.2720	-.2900	-.2780
360.000	-.2790	-.2700	-.2740	-.2890	-.2770	-.2750

MACH (1) = 1.203   ALPHA (4) = 4.003

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3000	-.2860	-.2830	-.2960	-.2930	-.2710
30.000	-.2680	-.2770	-.2990	-.2960	-.2740	-.2980
60.000	-.2650	-.2840	-.2920	-.2750	-.2950	-.2750
90.000	-.2810	-.2900	-.2720	-.2960	-.2720	-.2700
120.000	-.2790	-.2740	-.2930	-.2690	-.2670	-.2850
150.000	-.2650	-.2900	-.2730	-.2700	-.2800	-.2770
180.000	-.2680	-.2750	-.2710	-.2830	-.2760	-.2610
210.000	-.2840	-.2680	-.2840	-.2820	-.2520	-.2690
240.000	-.2930	-.2890	-.2800	-.2630	-.3140	-.2940
270.000	-.3010	-.2790	-.2650	-.3140	-.2940	-.2870
300.000	-.2920	-.2610	-.3120	-.2890	-.2950	-.3000
330.000	-.2740	-.3110	-.2690	-.2800	-.2960	-.2930
360.000	-.3000	-.2860	-.2830	-.2960	-.2930	-.2710

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + TI + SI LOWER LH MPS NOZ.   (RUFB05)

MACH (1) = 1.202   ALPHA (5) = 6.018

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3090	-.3010	-.2970	-.3020	-.2950	-.2800
30.000	-.2740	-.2850	-.3010	-.2950	-.2830	-.3050
60.000	-.2610	-.2930	-.2850	-.2770	-.3090	-.2870
90.000	-.2830	-.2930	-.2780	-.3080	-.2840	-.2710
120.000	-.2760	-.2750	-.3050	-.2820	-.2710	-.2900
150.000	-.2680	-.3020	-.2830	-.2710	-.2820	-.2750
180.000	-.2680	-.2830	-.2710	-.2860	-.2750	-.2690
210.000	-.2350	-.2670	-.2840	-.2780	-.2650	-.2690
240.000	-.2650	-.2830	-.2780	-.2650	-.3200	-.3040
270.000	-.3080	-.2780	-.2710	-.3210	-.3040	-.2870
300.000	-.2920	-.2690	-.3210	-.3020	-.2880	-.3060
330.000	-.2810	-.3210	-.2380	-.2870	-.3020	-.2940
360.000	-.3090	-.3010	-.2870	-.3020	-.2950	-.2800

CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.

(RUFBC6) (15 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.
LREF	=	90.7000 INCHES
BREF	=	90.7000 INCHES
SCALE	=	.0190 SCALE

XMRP = 158.0000 INCHES
YMRP = .0000 INCHES
ZMRP = .0000 INCHES

PARAMETRIC DATA

ALPHA	=	.000	POWER	=	.000
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	.000

MACH (1) = 1.202   BETA (1) = -6.079

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2900	-.2810	-.2870	-.2880	-.2840	-.2740
30.000	-.2720	-.2820	-.2920	-.2840	-.2740	-.2930
60.000	-.2780	-.2690	-.2880	-.2760	-.2950	-.2700
90.000	-.2640	-.2870	-.2770	-.2920	-.2700	-.2780
120.000	-.2820	-.2780	-.2930	-.2730	-.2770	-.2840
150.000	-.2690	-.2950	-.2740	-.2810	-.2830	-.2790
180.000	-.2950	-.2720	-.2800	-.2800	-.2790	-.2670
210.000	-.2820	-.2790	-.2830	-.2810	-.2660	-.3010
240.000	-.2890	-.2840	-.2790	-.2670	-.3100	-.2840
270.000	-.2820	-.2910	-.2660	-.3080	-.2840	-.2900
300.000	-.2870	-.2650	-.3090	-.2660	-.2910	-.2920
330.000	-.2800	-.3080	-.2830	-.2890	-.2920	-.2900
360.000	-.2900	-.2810	-.2870	-.2880	-.2840	-.2740

MACH (1) = 1.202   BETA (2) = -3.051

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.0	-.2950	-.2780	-.2850	-.2870	-.2830	-.2780
30.000	-.2630	-.2850	-.2880	-.2850	-.2830	-.2950
60.000	-.2600	-.2890	-.2900	-.2770	-.2970	-.2610
90.000	-.2790	-.2910	-.2790	-.2950	-.2640	-.2750
120.000	-.2730	-.2830	-.2970	-.2630	-.2750	-.2780
150.000	-.2650	-.2930	-.2630	-.2770	-.2790	-.2750
180.000	-.2870	-.2670	-.2780	-.2800	-.2750	-.2660
210.000	-.2770	-.2780	-.2790	-.2750	-.2650	-.3010
240.000	-.2870	-.2760	-.2720	-.2650	-.3090	-.2760
270.000	-.2550	-.2740	-.2640	-.3080	-.2820	-.2910
300.000	-.2820	-.2630	-.3070	-.2810	-.2900	-.2850
330.000	-.2750	-.3040	-.2780	-.2820	-.2840	-.2500
360.000	-.2950	-.2780	-.2850	-.2870	-.2830	-.2780

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

(RUFBO6)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) = 1.202   BETA (3) = .000   DEPENDENT VARIABLE CP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2780	-.2870	.0000	-.2810	-.2740	-.2720
30.000	-.2530	.0000	-.2800	-.2750	-.2730	-.2910
60.000	.0000	-.2770	-.2740	-.2690	-.2910	-.2580
90.000	-.2690	-.2780	-.2720	-.2850	-.2580	.0000
120.000	-.2700	-.2680	-.2960	-.2600	.0000	-.2700
150.000	-.2560	-.2860	-.2580	.0000	-.2620	-.2700
180.000	-.2870	-.2610	.0000	-.2720	-.2670	-.2690
210.000	-.2730	.0000	-.2690	-.2650	-.2580	-.2820
240.000	.0000	-.2650	-.2650	-.2690	-.3030	-.2750
270.000	-.2790	-.2650	-.2850	-.2950	-.2750	.0000
300.000	-.2730	-.2560	-.3030	-.2750	.0000	-.2800
330.000	-.2620	-.2330	-.2720	.0000	-.2600	-.2740
360.000	-.2780	-.2670	.0000	-.2810	-.2740	-.2720

MACH (1) = 1.203   BETA (4) = 3.051   DEPENDENT VARIABLE CP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3050	-.2910	-.2850	-.2970	-.2920	-.2790
30.000	-.2720	-.2840	-.2950	-.2940	-.2810	-.3030
60.000	-.2500	-.2770	-.2860	-.2800	-.3030	-.2680
90.000	-.2770	-.2310	-.2800	-.2990	-.2700	-.2730
120.000	-.2800	-.2800	-.2850	-.2740	-.2750	-.2840
150.000	-.2800	-.2550	-.2750	-.2770	-.2810	-.2790
180.000	-.3010	-.2720	-.2750	-.2720	-.2810	-.2840
210.000	-.2640	-.2740	-.2830	-.2830	-.2850	-.2950
240.000	-.2490	-.2840	-.2650	-.3170	-.3170	-.2850
270.000	-.3020	-.2850	-.2650	-.2890	-.2840	-.2850
300.000	-.2970	-.2690	-.3150	-.2890	-.2840	-.3000
330.000	-.2780	-.3110	-.2840	-.2840	-.2920	-.2940
360.000	-.3050	-.2910	-.2850	-.2970	-.2920	-.2790

DATE 05 NOV 75　　　TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + TI + S1 LOWER LH MPS NOZ.　　　(RUFB06)

MACH (1) =　1.203　BETA (5) =　6.079　　　DEPENDENT VARIABLE CP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3060	-.2960	-.2960	-.3030	-.2090	-.2650
30.000	-.2090	-.2930	-.3040	-.3010	-.2840	-.3040
60.000	-.2620	-.2920	-.3000	-.2850	-.3020	-.2770
90.000	-.2690	-.3010	-.2940	-.3000	-.2780	-.2780
120.000	-.2870	-.2910	-.3010	-.2830	-.2820	-.2890
150.000	-.2740	-.2990	-.2810	-.2790	-.2890	-.2840
180.000	-.3120	-.2770	-.2600	-.2900	-.2660	-.2730
210.000	-.2890	-.2820	-.2930	-.2830	-.2700	-.3100
240.000	-.2940	-.2940	-.2850	-.2720	-.3150	-.2320
270.000	-.3070	-.2680	-.2700	-.3150	-.2930	-.2930
300.000	-.3030	-.2740	-.3120	-.2930	-.2940	-.3050
330.000	-.2920	-.3100	-.2930	-.2960	-.3010	-.2950
360.000	-.3060	-.2980	-.2960	-.3030	-.2990	-.2850

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (RUFB07) (15 NOV / 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF =	90.7000 INCHES	YMRP = .0000 INCHES
BREF =	90.7000 INCHES	ZMPP = .0000 INCHES
SCALE =	.0190 SCALE	

PARAMETRIC DATA

BETA =	.000	POWER =	1.000
CPR =	28.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) = 1.199   ALPHA (1) = -8.108

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2880	-.2970	-.2980	-.3060	-.2980	-.2710
30.000	-.2900	-.3080	-.3100	-.3010	-.2730	-.2840
60.000	-.3270	-.3340	-.3230	-.2900	-.3040	-.2820
90.000	-.4480	-.3910	-.3410	-.2950	-.2950	-.2940
120.000	-.3120	-.3050	-.3090	-.2830	-.2780	-.2740
150.000	-.2330	-.2630	-.2760	-.2790	-.2750	-.2770
180.000	-.2150	-.2680	-.2950	-.3100	-.2660	-.2630
210.000	-.2400	-.2790	-.3100	-.3100	-.2780	-.2460
240.000	-.2380	-.3070	-.3060	-.2900	-.3260	-.2990
270.000	-.3620	-.3200	-.2940	-.3290	-.3030	-.2990
300.000	-.3360	-.2810	-.3230	-.2910	-.2970	-.3060
330.000	-.2850	-.3060	-.2680	-.2930	-.3010	-.2990
360.000	-.2880	-.2970	-.2980	-.3060	-.2980	-.2710

MACH (1) = 1.198   ALPHA (2) = -4.075

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2920	-.2820	-.2940	-.2920	-.2770	-.2670
30.000	-.2710	-.2950	-.2970	-.2820	-.2700	-.2830
60.000	-.3200	-.2850	-.3260	-.2660	-.3070	-.2750
90.000	-.4310	-.3630	-.3200	-.3100	-.2760	-.2840
120.000	-.2880	-.2920	-.2690	-.2590	-.2670	-.2650
150.000	-.2100	-.2730	-.2700	-.2740	-.2700	-.2620
180.000	-.2130	-.2540	-.2650	-.2930	-.2700	-.2560
210.000	-.2250	-.2840	-.3050	-.2850	-.2670	-.2690
240.000	-.3030	-.2920	-.2900	-.2820	-.3320	-.2890
270.000	-.3330	-.2860	-.2860	-.3180	-.2650	-.2950
300.000	-.2310	-.2550	-.3010	-.2600	-.2690	-.2950
330.000	-.2510	-.3000	-.2780	-.3070	-.2840	-.2790
360.000	-.2920	-.2830	-.2940	-.2920	-.2770	-.2670

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.   (RUFB07)

MACH (1) = 1.197   ALPHA (3) = -.023

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2910	-.2800	-.2910	-.2720	-.2750	-.2710
30.000	-.2780	-.2970	-.2810	-.2780	-.2710	-.2840
60.000	-.3140	-.3180	-.2970	-.2930	-.3060	-.2770
90.000	-.4110	-.3560	-.3200	-.3190	-.2730	-.2550
120.000	-.2730	-.2870	-.2870	-.2620	-.2650	-.2610
150.000	-.2000	-.2660	-.2740	-.2760	-.2660	-.2600
180.000	-.1800	-.2770	-.3060	-.2830	-.2750	-.2580
210.000	-.2510	-.2550	-.2980	-.2850	-.2710	-.2670
240.000	-.3020	-.2870	-.2940	-.2850	-.3250	-.2950
270.000	-.3350	-.2950	-.2800	-.3170	-.2680	-.2650
300.000	-.2650	-.2520	-.3010	-.2810	-.2840	-.2810
330.000	-.2770	-.2970	-.2780	-.2840	-.2680	-.2750
360.000	-.2910	-.2800	-.2910	-.2720	-.2750	-.2710

MACH (1) = 1.196   ALPHA (4) = .017

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0000	-.2850	-.2930	-.3120	-.2670	-.2940
30.000	-.2850	-.2960	-.3190	-.2710	-.2990	.0000
60.000	-.3130	-.3370	-.2950	-.3070	.0000	-.2750
90.000	-.4770	-.3360	-.3330	.0000	-.2730	-.2720
120.000	-.2720	-.3370	.0000	-.2610	-.2570	-.2790
150.000	-.2050	.0000	-.2670	-.2640	-.2810	-.2530
180.000	.0000	-.2740	-.2880	-.3020	-.2610	-.2790
210.000	-.2730	-.2940	-.3180	-.2760	-.2830	.0000
240.000	-.3370	-.3330	-.2900	-.3050	.0000	-.2760
270.000	-.3510	-.2810	-.2870	.0000	-.2820	-.2830
300.000	-.2730	-.2730	.0000	-.2770	-.2790	-.3110
330.000	-.2940	.0000	-.2730	-.2840	-.3130	-.2680
360.000	.0000	-.2650	-.2930	-.3120	-.2670	-.2940

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A3S)

(RUFB07)

CAL T14-053 1A3S 02 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) = 1.200   ALPHA (5) = 6.028

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0000	-.2820	-.2760	-.2950	-.2840	-.2720
30.000	-.2720	-.2900	-.3010	-.2850	-.2730	.0000
60.000	-.2950	-.3140	-.3000	-.2800	.0000	-.2670
90.000	-.4230	-.3570	-.2960	.0000	-.2620	-.2610
120.000	-.3000	-.3050	.0000	-.2500	-.2480	-.2730
150.000	-.1510	.0000	-.2530	-.2690	-.2740	-.2610
180.000	.0000	-.2650	-.2820	-.2650	-.2710	-.2650
210.000	-.2710	-.2610	-.3010	-.2810	-.2620	.0000
240.000	-.2950	-.3120	-.2930	-.2730	.0000	-.2740
270.000	-.3120	-.2600	-.2650	.0000	-.2760	-.2730
300.000	-.2690	-.2600	.0000	-.2720	-.2460	-.2960
330.000	-.2610	.0000	-.2720	-.2770	-.2560	-.2610
360.000	.0000	-.2820	-.2760	-.2950	-.2640	-.2720

CAL T14-053 IA36 02 - T1 + S1 LOWER LH MPS NOZ.

(RUF90B)   (15 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
DREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	POWER =	1.000
OPR =	28.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-3.000
GP3 =	.000	GY3 =	-9.000

MACH (1) = 1.194   BETA (1) = -6.07.

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0630	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3200	-.3160	-.3150	-.3130	-.3020	-.2830
30.000	-.3240	-.3310	-.3200	-.3070	-.2970	-.3020
60.000	-.3570	-.3460	-.3340	-.3140	-.3150	-.3030
90.000	-.5010	-.4540	-.3970	-.3580	-.3140	-.3080
120.000	-.3710	-.3890	-.3550	-.3210	-.2980	-.2940
150.000	-.2060	-.3040	-.3290	-.3140	-.2990	-.2910
180.000	-.1430	-.2250	-.3030	-.3090	-.3080	-.2870
210.000	-.2270	-.2700	-.3070	-.3110	-.3050	-.3210
240.000	-.3320	-.3430	-.3530	-.3750	-.3590	-.3370
270.000	-.4200	-.4010	-.3670	-.3910	-.3540	-.3260
300.000	-.3930	-.3310	-.3670	-.3350	-.3240	-.3140
330.000	-.3120	-.3330	-.3210	-.3180	-.3140	-.3040
360.000	-.3200	-.3160	-.3160	-.3130	-.3020	-.2830

MACH (1) = 1.194   BETA (2) = -3.04.

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5030	.7540	.9280
PHI						
.000	.0000	-.3150	-.3100	-.3270	-.2920	-.3120
30.000	-.3230	-.3190	-.3350	-.2900	-.3090	.0000
60.000	-.3500	-.3770	-.3220	-.3340	.0000	-.3030
90.000	-.5000	-.4200	-.4020	.0000	-.3130	-.3050
120.000	-.3350	-.3140	.0000	-.3030	-.2960	-.3060
150.000	-.1980	.0000	-.3170	-.3000	-.3100	-.2650
180.000	.0000	-.2400	-.2990	-.3180	-.3100	-.3100
210.000	-.2700	-.2510	-.3220	-.2970	-.3140	.0000
240.000	-.3460	-.3570	-.3300	-.3270	.0000	-.3310
270.000	-.4340	-.3720	-.3650	.0000	-.3330	-.3110
300.000	-.3390	-.3720	.0000	-.3170	-.3030	-.3190
330.000	-.3320	.0000	-.3730	-.3000	-.3270	-.2930
360.000	.0000	-.3160	-.3100	-.3270	-.2920	-.3120

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36)

(RJFB08)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) = 1.199 BETA (3) = .000

SECTION (1)LOWER LH MPS NOZ. DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2070	-.2910	-.2890	-.2850	-.2640	-.2520
30.000	-.2850	-.2960	-.2880	-.2650	-.2560	-.2640
60.000	-.3120	-.3170	-.2860	-.2750	-.2820	-.2930
90.000	-.3900	-.3350	-.3070	-.2920	-.2830	-.2810
120.000	-.2700	-.2820	-.2690	-.2670	-.2640	-.2650
150.000	-.1930	-.2590	-.2720	-.2700	-.2710	-.2510
180.000	-.1910	-.2770	-.2950	-.2900	-.2650	-.2450
210.000	-.2500	-.2300	-.3020	-.2810	-.2640	-.2730
240.000	-.3020	-.3000	-.2820	-.2760	-.2930	-.2340
270.000	-.3340	-.2870	-.2670	-.2930	-.2920	-.2840
300.000	-.2780	-.2460	-.2790	-.2820	-.2840	-.2790
330.000	-.2590	-.2750	-.2810	-.2850	-.2820	-.2600
360.000	-.2670	-.2910	-.2890	-.2850	-.2640	-.2520

MACH (1) = 1.195 BETA (4) = 3.049

SECTION (1)LOWER LH MPS NOZ. DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2870	-.3090	-.2900	-.2890	-.2820	-.2930
30.000	-.3050	-.2980	-.2910	-.2910	-.3280	-.2870
60.000	-.3340	-.3310	-.3060	-.3890	-.2930	-.2970
90.000	-.4510	-.3680	-.3810	-.3170	-.3080	-.2790
120.000	-.2910	-.3560	-.3170	-.3040	-.2730	-.2660
150.000	-.3000	-.2660	-.3060	-.2860	-.2710	-.2620
180.000	-.2610	-.2850	-.2890	-.2950	-.2730	-.3650
210.000	-.3270	-.3050	-.2930	-.2850	-.3530	-.3050
240.000	-.3630	-.3100	-.2950	-.3340	-.3130	-.3070
270.000	-.3130	-.2630	-.3110	-.3010	-.3070	-.2930
300.000	-.2830	-.2820	-.2400	-.3000	-.2830	-.2930
330.000	-.2930	-.2930	-.3000	-.2830	-.2840	-.2910
360.000	-.2870	-.3090	-.2900	-.2830	-.2820	-.2930

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A35 02 + T1 + S1 LOWER LH MPG NOZ.   (RJFB08)

MACH (1) = 1.197   BETA (5) = 6.079

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2820	-.2930	-.2860	-.2880	-.3000	-.2820
30.000	-.3060	-.2930	-.2910	-.2990	-.2920	-.2840
60.000	-.3220	-.3280	-.3290	-.3150	-.3000	-.2850
90.000	-.4450	-.3860	-.3590	-.3320	-.2960	-.2830
120.000	-.2840	-.3220	-.3170	-.2090	-.2670	-.2740
150.000	-.1940	-.2600	-.2060	-.2810	-.2730	-.2770
180.000	-.2530	-.2760	-.2870	-.2890	-.2800	-.2820
210.000	-.3270	-.3020	-.2970	-.3020	-.2930	-.2690
240.000	-.3510	-.3120	-.3090	-.2980	-.3070	-.2930
270.000	-.3040	-.2990	-.2830	-.2970	-.2830	-.2930
300.000	-.3050	-.2750	-.2890	-.2380	-.2790	-.2810
330.000	-.2840	-.2900	-.2910	-.2920	-.2850	-.2970
360.000	-.2820	-.2930	-.2860	-.2880	-.3000	-.2820

CAL T14-053 1A35 O2 + T1 + S1 LOWER RH MPS NOZ.

REFERENCE DATA

SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF = 90.7000 INCHES	YMRP = .0000 INCHES
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES
SCALE = .0190 SCALE	

PARAMETRIC DATA   (RUFC01)   (15 NOV 73)

BETA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = .901   ALPHA (1) = -8.088

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2210	-.1590	-.2020	-.2120	-.1840	-.1920
30.000	-.1130	-.1630	-.2130	-.1800	-.1860	-.2090
60.000	-.2310	.2940	-.0730	-.2020	-.2250	-.1980
90.000	-.0640	.1500	.0880	-.2090	-.2130	-.1990
120.000	-.2130	-.1740	-.2250	-.2100	-.1950	-.2090
150.000		-.2420	-.2140		-.2040	
180.000	-.2090	-.2000	-.2030	-.1970	-.1770	
210.000	-.2000	-.1950	-.2030	-.1760	-.1860	-.2090
240.000	-.1970	-.2050	-.1670	-.1860	-.2080	-.1950
270.000	-.2020	-.1680	-.1940	-.2100	-.2010	-.1910
300.000	-.1820	-.1990	-.2080	-.2110	-.1950	-.2000
330.000	-.1510	-.2140	-.2160	-.2033	-.2050	-.1820
360.000	-.2210	-.1590	-.2020	-.2120	-.1840	-.1820

MACH (1) = .900   ALPHA (2) = -4.049

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2130	-.1870	-.2160	-.2060	-.1780	-.1760
30.000	-.1120	-.1780	-.2100	-.1820	-.1820	-.2050
60.000	-.2180	.3150	-.0440	-.1990	-.2190	-.1930
90.000	-.0500	.2100	.1510	-.2010	-.2040	-.2050
120.000	-.2060	-.1610	-.2100	-.2290	-.2080	-.2060
150.000		-.2360	-.2070		-.1990	
180.000	-.2030	-.1950	-.1960	-.2020	-.1810	
210.000	-.1890	-.1990	-.1930	-.1720	-.1740	-.2010
240.000	-.1970	-.1580	-.1790	-.1820	-.2020	-.1920
270.000	-.1930	-.1760	-.1830	-.2020	-.1970	-.2020
300.000	-.1850	-.1950	-.2030	-.1990	-.2050	-.1950
330.000	-.1650	-.2020	-.2070	-.2130	-.1950	-.1770
360.000	-.2130	-.1670	-.2150	-.2060	-.1780	-.1760

CAL T14-053 IA36 02 + T1 + SI LOWER RH MPS NOZ.　　　(RUFC0:)

MACH (1) = .900　ALPHA (3) = .013

SECTION (1)LOWER RH MPS NOZ.　　　DEPENDENT VARIABLE CP

X/DE	.0580	.320	.4060	.5800	.7540	.9280
PHI						
.000	-.2130	-.1740	-.1950	-.1910	-.1670	-.1640
30.000	-.1010	-.1750	-.1890	-.1760	-.1710	-.1990
60.000	-.1640	.3120	-.0030	-.1750	-.2210	-.1770
90.000	-.0340	.1910	.1350	-.1740	-.2010	-.1910
120.000	-.1830	-.1400	-.1850	-.2240	-.1990	-.1850
150.000	-.2330	-.1960	-.1870			
180.000	-.1970	-.1770	-.1880	-.1850	-.1720	
210.000	-.1730	-.1810	-.1820	-.1410	-.1640	-.1940
240.000	-.1780	-.1850	-.1630	-.1610	-.1890	-.1760
270.000	-.1800	-.1660	-.1640	-.1990	-.1730	-.1810
300.000	-.1730	-.1650	-.1960	-.1730	-.1850	-.1800
330.000	-.1520	-.2100	-.1870	-.1990	-.1820	-.1660
360.000	-.2130	-.1740	-.1950	-.1910	-.1670	-.1640

MACH (1) = .899　ALPHA (4) = 4.005

SECTION (1)LOWER RH MPS NOZ.　　　DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2050	-.1710	-.1970	-.1740	-.1500	-.1510
30.000	-.1090	-.1770	-.1830	-.1550	-.1620	-.1940
60.000	-.1780	.3340	.0140	-.1640	-.2110	-.1700
90.000	-.0020	.2330	.1640	-.1520	-.1940	-.1920
120.000	-.1580	.1040	-.1640	-.2130	-.1990	-.1750
150.000	-.2290	-.1900	-.1720			
180.000	-.1980	-.1720	-.1890	-.1700	-.1720	
210.000	-.1720	-.1600	-.1670	-.1610	-.1440	-.1880
240.000	-.1790	-.1700	-.1600	-.1580	-.1900	-.1640
270.000	-.1700	-.1550	-.1490	-.1910	-.1630	-.1800
300.000	-.1540	-.1520	-.1950	-.1840	-.1850	-.1630
330.000	-.1430	-.2020	-.1750	-.1840	-.1630	-.1560
360.000	-.2050	-.1710	-.1970	-.1740	-.1500	-.1510

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (RUFCO1)

MACH (1) = .899   ALPHA (5) = 6.006

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.1950	-.1560	-.1810	-.1850	-.1580	-.1590
30.000	-.1090	-.1560	-.1850	-.1610	-.1640	-.1940
60.000	.1910	-.3330	-.0150	-.1690	-.2190	-.1520
90.000	-.0090	-.2250	.1690	-.1680	-.1730	-.1790
120.000	-.1690	-.1140	-.1740	-.2040	-.1840	-.1810
150.000		-.2350	-.1760		-.1850	
180.000	-.2030	-.1530	-.1760	-.1740	-.1620	
210.000	-.1600	-.1750	-.1770	-.1490	-.1480	-.1990
240.000	-.1700	-.1780	-.1450	-.1580	-.1890	-.1510
270.000	-.1800	-.1510	-.1620	-.1830	-.1530	-.1730
300.000	-.1530	-.1640	-.1920	-.1540	-.1710	-.1630
330.000	-.1520	-.2060	-.1600	-.1710	-.1700	-.1490
360.000	-.1350	-.1560	-.1810	-.1850	-.1580	-.1590

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 161

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (RUFC02)   (15 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SPEF	= 49.4000 SQ.FT.	XMRP = 158.0000 INCHES	ALPHA = .000	POWER = -.000
LREF	= 90.7000 INCHES	YMRP = .0000 INCHES	GP1 = 11.000	GY1 = -9.000
BREF	= 90.7000 INCHES	ZMRP = .0000 INCHES	GP2 = .000	GY2 = -9.000
SCALE	= .0190 SCALE		GP3 = .000	GY3 = .000

MACH (1) = .901   BETA (1) = -6.079

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2090	-.1780	-.1940	-.1870	-.1610	-.1490
30.000	-.1340	-.1790	-.1860	-.1660	-.1570	-.1900
60.000	-.1190	-.1360	-.0920	-.1780	-.2120	-.1650
90.000	-.0630	-.1520	.0310	-.2050	-.1850	-.2020
120.000	-.1800	-.1460	.2170	-.2090	-.1940	-.1900
150.000		-.2360	-.1810		-.1910	
180.000	-.1990	-.1790	-.1860	-.1770	-.1650	
210.000	-.1780	-.1880	-.1810	-.1660	-.1560	-.1890
240.000	-.1970	-.1750	-.1710	-.1620	-.1930	-.1690
270.000	-.1790	-.1780	-.1520	-.2020	-.1580	-.1890
300.000	-.1660	-.1650	-.1960	-.1650	-.1910	-.1790
330.000	-.1620	-.2010	-.1690	-.1900	-.1810	-.1650
360.000	-.2090	-.1780	-.1940	-.1870	-.1610	-.1490

MACH (1) = .900   BETA (2) = -3.049

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.1810	-.1700	-.1760	-.1750	-.1610	-.1520
30.000	-.1020	-.1560	-.1720	-.1600	-.1510	-.1810
60.000	-.1450	-.1970	-.0410	-.1640	-.1990	-.1580
90.000	-.0580	-.1510	.0830	-.1780	-.1720	-.1750
120.000	-.1720	-.1330	-.1890	-.1930	-.1740	-.1670
150.000		-.2230	-.1630		-.1730	
180.000	-.1960	-.1610	-.1790	-.1720	-.1610	
210.000	-.1640	-.1760	-.1760	-.1580	-.1650	-.1880
240.000	-.1750	-.1770	-.1570	-.1600	-.1860	-.1660
270.000	-.1780	-.1650	-.1510	-.1950	-.1590	-.1650
300.000	-.1710	-.1600	-.1890	-.1700	-.1770	-.1700
330.000	-.1470	-.1910	-.1690	-.1820	-.1700	-.1550
360.000	-.1810	-.1700	-.1760	-.1750	-.1610	-.1520

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

(RUFC02)

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = .901   BETA (3) = .000

SECTION (1)LOWER PH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2150	-.1810	-.2100	-.1790	-.1680	-.1660
30.000	-.0960	-.1730	-.1860	-.1720	-.1710	-.2020
60.000	-.1670	.3090	-.0060	-.1830	-.2120	-.1810
90.000	-.0400	.2000	.1250	-.1690	-.1990	-.2070
120.000	-.1830	-.1350	.1950	.2160	-.2050	-.1830
150.000		-.2310	-.1870	-.1870	-.1800	
180.000		-.1740	-.1930	-.1770	-.1630	
210.000	-.1940	-.1850	-.1760	-.1630	-.1610	-.1960
240.000	-.1700	-.1770	-.1620	-.1590	-.1920	-.1750
270.000	-.1860	-.1680	-.1620	-.1980	-.1760	-.1890
300.000	-.1730	-.1690	-.1970	-.1810	-.1320	-.1690
330.000	-.1680	-.2000	-.1830	-.1930	-.1720	-.1620
360.000	-.1460	-.1810	-.2100	-.1790	-.1680	-.1660

MACH (1) = .900   BETA (4) = 3.051

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2360	-.1860	-.2210	-.2120	-.2010	-.1960
30.000	-.1230	-.1950	-.2130	-.2010	-.2020	-.2260
60.000	.1890	.4130	.0480	-.2010	-.2430	-.2030
90.000	-.0270	.2380	.2110	-.1700	-.2330	-.2150
120.000	-.1940	-.1310	-.2090	-.2300	-.2220	-.2060
150.000		-.2570	-.2310		-.2010	
180.000	-.2100	-.1930	-.2040	-.2100	-.1830	
210.000	-.1820	-.1990	-.2020	-.1550	-.1890	-.2170
240.000	-.1990	-.1930	-.1890	-.1840	-.2140	-.1930
270.000	-.1930	-.1840	-.1890	-.2140	-.1900	-.2030
300.000	-.1920	-.1450	-.2210	-.1980	-.2100	-.2030
330.000	-.1850	-.2380	-.2070	-.2140	-.1990	-.1920
360.000	-.2360	-.1860	-.2210	-.2120	-.2010	-.1960

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (RUFC02)

MACH (1) = .901   BETA (5) = 6.089

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2130	-.1650	-.2290	-.2270	-.2130	-.2130
30.000	-.1020	-.1800	-.2330	-.2150	-.2240	-.2430
60.000	.1810	.4920	.1670	-.2250	-.2610	-.2270
90.000	-.0250	.2560	.2950	-.1440	-.2480	-.2440
120.000	-.2060	.1060	.1750	.2540	-.2620	-.2180
150.000		-.2630	-.2620		-.2260	
180.000	-.2000	-.2170	-.2380	-.2320	-.2100	
210.000	-.1850	-.2200	-.2260	-.2020	-.2020	-.2230
240.000	-.2280	-.2160	-.2050	-.2050	-.2270	-.2040
270.000	-.2090	-.1940	-.2080	-.2290	-.2140	-.2310
300.000	-.2160	-.2300	-.2350	-.2190	-.2330	-.2260
330.000	-.2160	-.2600	-.2260	-.2500	-.2190	-.2110
360.000	-.2130	-.1650	-.2290	-.2270	-.2130	-.2130

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

(RUFC03)   (15 NOV 73)

PARAMETRIC DATA

BETA	=	.000	POWER =	.000
CPR	=	36.200	SRMPR =	.300
GP1	=	11.000	GY1 =	-9.000
GP2	=	.000	GY2 =	.000
GP3	=	.000	GY3 =	-9.000

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP = 159.0000 INCHES
LREF	=	90.7000 INCHES	YMRP = .0000 INCHES
BREF	=	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE	=	.0190 SCALE	

MACH (1) = .897   ALPHA (1) = -8.088

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3490	-.2840	-.2960	-.2720	-.2630	-.2570
30.000	-.2290	-.2690	-.2760	-.2710	-.2640	-.3410
60.000	-.2240	-.3610	-.1150	-.2640	-.3600	-.2830
90.000	-.1170	-.2370	-.0930	-.3140	-.3040	-.2840
120.000	-.3640	-.2070	-.3200	-.3090	-.2830	-.2660
150.000		-.3280	-.2980		-.2550	
180.000	-.2840	-.2720	-.2830	-.2750	-.2540	
210.000	-.2110	-.2750	-.2770	-.2670	-.2590	-.3270
240.000	-.2630	-.2710	-.2680	-.2540	-.3310	-.2860
270.000	-.3240	-.2630	-.2580	-.3370	-.2810	-.2840
300.000	-.2480	-.2470	-.3340	-.2830	-.2790	-.2650
330.000	-.2270	-.3410	-.2910	-.2780	-.2600	-.2600
360.000	-.3490	-.2840	-.2960	-.2720	-.2630	-.2570

MACH (1) = .899   ALPHA (2) = -4.038

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2660	-.2610	-.2750	-.2480	-.2450	-.2320
30.000	-.2240	-.2510	-.2450	-.2490	-.2450	-.2540
60.000	-.2020	-.4200	-.0400	-.2470	-.2700	-.2510
90.000	-.1030	-.2320	-.1680	-.2390	-.2780	-.2640
120.000	-.3590	-.1950	-.2420	-.2650	-.2690	-.2320
150.000		-.2560	-.2680		-.2260	
180.000	-.2050	-.2470	-.2720	-.2350	-.2330	
210.000	-.2020	-.2630	-.2450	-.2460	-.2310	-.2450
240.000	-.2470	-.2380	-.2410	-.2320	-.2480	-.2560
270.000	-.2700	-.2430	-.2330	-.2470	-.2500	-.2600
300.000	-.2700	-.2210	-.2470	-.2510	-.2500	-.2350
330.000	-.2200	-.2510	-.2600	-.2500	-.2370	-.2410
360.000	-.2660	-.2610	-.2750	-.2480	-.2450	-.2320

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(RUFC03)

CAL T14-C53 1A35 02 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = .901   ALPHA (3) = .001

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9200
PHI						
.000	-.2520	-.2520	-.2600	-.2390	-.2300	-.2120
30.000	-.2050	-.2320	-.2340	-.2350	-.2270	-.2210
60.000	.1250	.3850	.0230	-.2210	-.2450	-.2370
90.000	-.0920	-.2200	-.2130	-.2020	-.2660	-.2390
120.000	-.3400	-.1560	-.2250	-.2790	-.2550	-.2240
150.000		-.2440	-.2670		-.2150	
180.000	-.2070	-.2390	-.2490	-.2300	-.2190	-.2300
210.000	-.2140	-.2380	-.2310	-.2200	-.2130	-.2420
240.000	-.2340	-.2320	-.2280	-.2200	-.2260	-.2370
270.000	-.2490	-.2310	-.2220	-.2280	-.2300	-.2250
300.000	-.2230	-.2130	-.2140	-.2370	-.2380	-.2270
330.000	-.2180	-.2270	-.2420	-.2340	-.2210	-.2270
360.000	-.2520	-.2520	-.2600	-.2390	-.2300	-.2120

MACH (1) = .902   ALPHA (4) = 4.026

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2390	-.2420	-.2660	-.2280	-.2250	-.2050
30.000	-.1960	-.2450	-.2270	-.2400	-.2230	-.2240
60.000	.1460	.4050	.0160	-.2060	-.2470	-.2280
90.000	-.0560	-.2660	-.2480	-.1680	-.2600	-.2480
120.000	-.3180	-.1240	-.2110	-.2710	-.2620	-.2170
150.000		-.2410	-.2710		-.2070	
180.000	-.2050	-.2410	-.2550	-.2250	-.2170	
210.000	-.2130	-.2450	-.2240	-.2260	-.1940	-.2190
240.000	-.2490	-.2240	-.2200	-.2100	-.2160	-.2290
270.000	-.2310	-.2040	-.2070	-.2160	-.2230	-.2470
300.000	-.2170	-.2080	-.2170	-.2180	-.2450	-.2150
330.000	-.2160	-.2250	-.2260	-.2430	-.2110	-.2180
360.000	-.2390	-.2420	-.2660	-.2280	-.2250	-.2050

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE :55

                         CAL T14-053 1A36 C2 + T1 + S1 LOWER RH MPS NOZ.   (RUFC03)

MACH (1) = .898   ALPHA (5) = 6.021

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2830	-.2520	-.2540	-.2250	-.2700	-.2150
30.000	-.2160	-.2340	-.2370	-.2410	-.2340	-.2660
60.000	.1690	.3870	.0060	-.2210	-.2920	-.2360
90.000	-.0530	.2630	.2150	-.2130	-.2680	-.2360
120.000	-.3210	-.1320	.2530	-.2810	-.2410	-.2280
150.000		-.2870	-.2790		-.2180	
180.000	-.2580	-.2460	-.2260	-.2290	-.2160	
210.000	-.2300	-.2270	-.2290	-.2350	-.2110	-.2620
240.000	-.2230	-.2300	-.2350	-.2180	-.2610	-.2390
270.000	-.2390	-.2410	-.2190	-.2600	-.2320	-.2270
300.000	-.2570	-.2200	-.2610	-.2290	-.2220	-.2220
330.000	-.2340	-.2680	-.2320	-.2250	-.2210	-.2330
360.000	-.2830	-.2520	-.2540	-.2250	-.2300	-.2150

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (RUFC04)   (15 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

ALPHA	=	.000	POWER	=	1.000
OPR	=	36.200	SRMPR	=	2.330
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	-9.000

MACH (1) =   .859   BETA (1) =   -6.078   DEPENDENT VARIABLE CP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2820	-.2770	-.2580	-.2430	-.2260	-.2150
30.000	-.2420	-.2480	-.2490	-.2390	-.2210	-.2490
60.000	-.1320	-.2280	-.0690	-.2226	-.2710	-.2500
90.000	-.1470	-.1920	-.1080	-.2380	-.2790	-.2590
120.000	-.3810	-.1910	-.2610	-.3040	-.2560	-.2440
150.000		-.3220	-.2880		-.2450	
180.000	-.2970	-.2650	-.2630	-.2510	-.2350	
210.000	-.2770	-.2730	-.2580	-.2440	-.2280	-.2600
240.000	-.2800	-.2600	-.2530	-.2410	-.2630	-.2600
270.000	-.2610	-.2550	-.2320	-.2550	-.2540	-.2580
300.000	-.2330	-.2260	-.2510	-.2500	-.2540	-.2380
330.000	-.2340	-.2570	-.2550	-.2530	-.2380	-.2230
360.000	-.2820	-.2770	-.2580	-.2430	-.2260	-.2150

MACH (1) =   .900   BETA (2) =   -3.049   DEPENDENT VARIABLE CP

SECTION (1)LOWER RH MPS NOZ.

X/DL	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2570	-.2500	-.2540	-.2180	-.2080	-.2070
30.000	-.2050	-.2280	-.2180	-.2180	-.2160	-.2420
60.000	-.1000	-.2510	-.0280	-.2160	-.2610	-.2310
90.000	-.1310	-.1850	-.1290	-.2110	-.2570	-.2400
120.000	-.3530	-.1750	-.2440	-.2760	-.2400	-.2110
150.000		-.2890	-.2640		-.2120	
180.000	-.2680	-.2420	-.2410	-.2330	-.2070	
210.000	-.2390	-.2450	-.2250	-.2210	-.2090	-.2450
240.000	-.2460	-.2370	-.2250	-.2220	-.2430	-.2400
270.000	-.2410	-.2310	-.2180	-.2390	-.2310	-.2340
300.000	-.2200	-.2230	-.2370	-.2250	-.2540	-.2130
330.000	-.2340	-.2440	-.2100	-.2340	-.2140	-.2100
360.000	-.2570	-.2500	-.2540	-.2180	-.2080	-.2070

DATE 05 NOV 75   ABLATED DATA FOR CAL T14-053 (IA36)   (RUFC04)

CAL T14-053 IA36 02 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) =   .899   BETA (3) =   .000

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2650	-.2590	-.2660	-.2430	-.2270	-.2200
30.000	-.2200	-.2380	-.2450	-.2380	-.2370	-.2420
60.000	-.1190	.3610	.0120	-.2240	-.2720	-.2360
90.000	-.1020	.2190	.2010	-.2140	-.2730	-.2450
120.000	-.3340	-.1580	-.2470	-.2840	-.2510	-.2270
150.000		-.2530	-.2790		-.2200	
180.000	-.2300	-.2480	-.2520	-.2300	-.2190	
210.000	-.2160	-.2490	-.2700	-.2700	-.2140	-.2480
240.000			-.2250	-.2250	-.2450	-.2490
270.000	-.2420	-.2310	-.2240	-.2450	-.2420	-.2450
300.000	-.2310	-.2430	-.2420	-.2390	-.2440	-.2240
330.000	-.2290	-.2070	-.2450	-.2410	-.2260	-.2290
360.000	-.2650	-.2590	-.2660	-.2430	-.2270	-.2200

MACH (1) =   .899   BETA (4) =   3.051

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2790	-.2770	-.2940	-.2650	-.2460	-.2530
30.000	-.2190	-.2700	-.2580	-.2510	-.2740	-.2800
60.000	-.1590	.4640	.1000	-.2520	-.2970	-.2700
90.000	-.0640	.2750	.2850	-.2030	-.3030	-.2720
120.000	-.3160	-.1370	-.2270	-.2990	-.2940	-.2450
150.000		-.2730	-.2820		-.2450	
180.000	-.1890	-.2420	-.2800	-.2680	-.2450	
210.000	-.1690	-.2450	-.2650	-.2480	-.2490	-.2650
240.000	-.2540	-.2590	-.2650	-.2640	-.2640	-.2710
270.000	-.3190	-.2610	-.2640	-.2720	-.2670	-.2770
300.000	-.2190	-.2330	-.2640	-.2650	-.2760	-.2470
330.000	-.2410	-.2470	-.2740	-.2690	-.2470	-.2400
360.000	-.2790	-.2770	-.2940	-.2650	-.2460	-.2530

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.   (RUFCO4)

MACH (1) = .899   BETA (5) = 6.088

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2850	-.3110	-.3220	-.2980	-.2880	-.2770
30.000	-.1990	-.2840	-.2850	-.2870	-.2820	-.2940
60.000	.1590	.5150	-.2200	-.2650	-.3150	-.3100
90.000	.0570	-.1880	-.3320	-.1640	-.3170	-.2930
120.000	-.3060	-.1140	-.2140	-.3130	-.3230	-.2780
150.000		-.2900	-.3100		-.2810	
180.000	-.1710	-.2470		-.2910	-.2790	
210.000	-.1590	-.2490		-.2900	-.2770	-.2640
240.000	-.2640	-.2790		-.2430	-.2840	-.2800
270.000	-.3530	.3000	-.2680	-.2940	-.2840	-.2990
300.000	-.2280	-.2400	-.2770	-.2890	-.3000	-.2680
330.000	-.2770	-.3020	-.2920	-.3050	-.2600	-.2730
360.000	-.2850	-.3110	-.3220	-.2980	-.2880	-.2770

CAL T14-053 (A36 02 + T1 + S1 LOWER RH MPS NOZ.

(RUFC05)   (15 NOV 73)

REFERENCE DATA

PARAMETRIC DATA

SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES		BETA = .000	POWER = .000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES		GP1 = 11.000	GY1 = -9.000
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES		GP2 = .000	GY2 = -9.000
SCALE = .0150 SCALE			GP3 = .000	GY3 = -9.000

MACH (1) = 1.203   ALPHA (1) = -8.101

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0590	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.1950	-.2130	-.2370	-.2900	-.2920	-.2770
30.000	-.0320	-.1040	-.2100	-.2650	-.2660	-.2950
60.000	.3910	.4610	.0020	-.2800	-.3130	-.3010
90.000	.0130	.2050	.1180	-.2840	-.3180	-.2560
120.000	-.2930	-.3020	-.2740	-.3280	-.2890	-.2930
150.000			-.2940		-.2960	
180.000	-.3050	-.2780	-.2750	-.3640	-.2840	-.2940
210.000	-.2820	-.2790	-.3230	-.2810	-.2570	-.2770
240.000	-.2830	-.3000	-.2820	-.2740	-.2640	-.2840
270.000	-.3090	-.2980	-.2910	-.2990	-.2470	-.2840
300.000	-.2330	-.2810	-.3050	-.2890	-.2600	-.3060
330.000	-.2460	-.3120	-.2720	-.2910	-.3020	-.2920
360.000	-.1550	-.2130	-.2370	-.2900	-.2820	-.2770

MACH (1) = 1.203   ALPHA (2) = -4.038

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2850	-.2120	-.2480	-.2950	-.2750	-.2770
30.000	-.1740	-.1740	-.2630	-.2750	-.2570	-.3090
60.000	.3160	.3090	.0950	-.2780	-.3140	-.2900
90.000	-.0650	.1740	.0320	-.2640	-.3080	-.2830
120.000	-.2390	-.2520	-.2970	-.3030	-.2790	-.2960
150.000		-.3090	-.2790		-.2990	
180.000	-.3070	-.2750	-.2700	-.3550	-.2730	
210.000	-.2910	-.2700	-.3150	-.2740	-.2570	-.2970
240.000	-.2730	-.2990	-.2780	-.2680	-.2680	-.2770
270.000	-.2890	-.2890	-.2770	-.2980	-.2810	-.2740
300.000	-.2680	-.2810	-.3010	-.2870	-.2810	-.2900
330.000	-.2410	-.3110	-.2770	-.2870	-.2940	-.2750
360.000	-.2560	-.2120	-.2480	-.2950	-.2750	-.2770

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

(RUFC05)

CAL T14-053 IA36 C2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = 1.203   ALPHA (3) = -.011

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3030	-.2320	-.2730	-.2900	-.2750	-.2740
30.000	-.2110	-.2100	-.2790	-.2770	-.2700	-.3040
60.000	-.2230	-.1700	-.1610	-.2820	-.3160	-.2790
90.000	-.0130	-.1450	-.0390	-.2990	-.2830	-.2850
120.000	-.2700	-.2490	-.3040	-.2890	-.2720	-.2900
150.000		-.3040	-.2720		-.2950	
180.000	-.3050	-.2720	-.2720		-.2770	
210.000	-.2700	-.2750	-.3030	-.3380	-.2700	-.2990
240.000	-.2690	-.2950	-.2710	-.2680	-.3000	-.2730
270.000	-.2940	-.2800	-.2720	-.3030	-.2770	-.2750
300.000	-.2810	-.2790	-.3000	-.2780	-.2780	-.2900
330.000	-.2390	-.3100	-.2770	-.2840	-.2890	-.2750
360.000	-.3030	-.2320	-.2730	-.2900	-.2750	-.2740

MACH (1) = 1.203   ALPHA (4) = 4.003

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3110	-.2420	-.2790	-.2940	-.2890	-.2750
30.000	-.2590	-.2600	-.2850	-.2890	-.2740	-.3110
60.000	-.1420	-.0580	-.2250	-.2800	-.3160	-.2890
90.000	-.0100	-.1100	-.0990	-.3250	-.2910	-.2880
120.000	-.2650	-.2400	-.3190	-.2890	-.2810	-.3040
150.000		-.3020	-.2840		-.3050	
180.000	-.3130	-.2650	-.2800		-.2900	
210.000	-.2790	-.2730	-.3080	-.3280	-.2710	-.3070
240.000	-.2800	-.2950	-.2940	-.2690	-.3020	-.2850
270.000	-.2910	-.2900	-.2720	-.3060	-.2850	-.2830
300.000	-.2980	-.2800	-.3090	-.2910	-.2810	-.2910
330.000	-.2950	-.3110	-.2870	-.2800	-.2950	-.2910
360.000	-.3110	-.2420	-.2790	-.2940	-.2890	-.2750

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (RUFC05)

MACH (1) = 1.202   ALPHA (5) = 6.018

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3210	-.2730	-.2760	-.2960	-.2890	-.2800
30.000	-.2730	-.2660	-.2930	-.2840	-.2790	-.3220
60.000	.0640	.0280	-.2550	-.2840	-.3270	-.3010
90.000	.0000	.0820	-.1350	-.3390	-.3010	-.2920
120.000	-.2540	-.2400	-.3280	-.2990	-.2870	-.3090
150.000		-.2830	-.2950		-.3090	
180.000	-.3180	-.2370	-.2780	-.3290	-.2820	-.3150
210.000	-.2930	-.2790	-.3110	-.2850	-.2750	-.2960
240.000	-.2790	-.3050	-.2880	-.2790	-.3140	-.2820
270.000	-.3010	-.2940	-.2790	-.3170	-.2970	-.3000
300.000	-.2950	-.2870	-.3180	-.3010	-.2850	-.3000
330.000	-.2570	-.3220	-.3040	-.2840	-.3000	-.2920
360.000	-.3210	-.2730	-.2760	-.2960	-.2890	-.2800

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

(RUFC06) (15 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF =	90.7000 INCHES	YMRP = .0000 INCHES
BREF =	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE =	.0190 SCALE	

PARAMETRIC DATA

ALPHA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = 1.202   BETA (1) = -6.079

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3050	-.2780	-.2900	-.2900	-.2860	-.2760
30.000	-.2570	-.3010	-.2960	-.2840	-.2740	-.3070
60.000	-.0680	-.0300	-.2850	-.2780	-.3110	-.2820
90.000	-.0950	.0070	-.1690	-.3330	-.2760	-.2910
120.000	-.2830	-.2700	-.3220	-.2800	-.2290	-.2950
150.000		-.3060	-.2790		-.2920	
180.000	-.3030	-.2900	-.2950		-.2840	
210.000	-.2840	-.2920	-.3070		-.2750	-.3040
240.000	-.2920	-.3010	-.2900		-.3050	-.2810
270.000	-.2950	-.2910	-.2800		-.2800	-.2900
300.000	-.2890	-.2760	-.3030		-.2860	-.2610
330.000	-.2740	-.3040	-.2800		-.2900	-.2860
360.000	-.3060	-.2790	-.2900		-.2860	-.2760

MACH (1) = 1.202   BETA (2) = -3.051

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3090	-.2560	-.2850	-.2890	-.2840	-.2720
30.000	-.2380	-.2340	-.2910	-.2820	-.2720	-.3060
60.000	-.1240	-.0560	-.2410	-.2790	-.3120	-.2750
90.000	-.0810	.0500	-.1390	-.3310	-.2760	-.2900
120.000	-.2820	-.2650	-.1230	-.2730	-.2890	-.2950
150.000		-.3120	-.2600		-.2930	
180.000	-.3060	-.2720	-.2900		-.2760	
210.000	-.2740	-.2930	-.2830		-.2760	-.3030
240.000	-.2840	-.2930	-.2640		-.3030	-.2740
270.000	-.2910	-.2950	-.2730		-.2760	-.2850
300.000	-.2860	-.2730	-.3020		-.2850	-.2650
330.000	-.2700	-.3070	-.2750		-.2890	-.2970
360.000	-.3090	-.2560	-.2850		-.2840	-.2720

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.   (RUFC06)

MACH (1) = 1.202   BETA (3) = .000

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2980	-.2140	.0000	-.2860	-.2780	-.2710
30.000	-.2270	.0000	-.2740	-.2780	-.2710	-.3030
60.000	.0000	.1750	-.1700	-.2790	-.3110	-.2730
90.000	-.0270	.1470	-.0500	-.2990	-.2760	.0000
120.000	-.2630	-.2470	-.3050	-.2720	.0000	-.2900
150.000		-.3010	-.2640		-.2890	
180.000	-.3040	-.2540	.0000		-.2710	
210.000	-.2630	.0000	-.2940	-.3210	-.2650	-.2970
240.000	.0000	-.2800	-.2710	-.2710	-.2970	-.2680
270.000	-.2650	-.2810	-.2750	-.2640	-.2700	.0000
300.000	-.2840	-.2750	-.2990	-.2960	.0000	-.2810
330.000	-.2410	-.3040	-.2750	-.2790	-.2820	-.2780
360.000	-.2980	-.2140	.0000	-.2860	-.2780	-.2710

MACH (1) = 1.203   BETA (4) = 3.051

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2950	-.2340	-.2750	-.2980	-.2970	-.2810
30.000	-.2210	-.2370	-.2650	-.2860	-.2810	-.3150
60.000	.3110	.3360	.0740	-.2880	-.3250	-.2920
90.000	.0510	.1990	.0780	-.2850	-.3050	-.2920
120.000	-.2600	-.2360	-.2810	-.3110	-.2890	-.2970
150.000		-.3270	-.2970		-.2980	
180.000	-.3220	-.2820	-.2950		-.2930	
210.000	-.2630	-.2640	-.2970	-.3020	-.2770	-.3100
240.000	-.2730	-.2950	-.2910	-.2900	-.3100	-.2800
270.000	-.2830	-.2860	-.2620	-.2980	-.2840	-.2050
300.000	-.3030	-.2970	-.3150	-.3100	-.2900	-.2940
330.000	-.2820	-.3250	-.2730	-.2970	-.2920	-.2930
360.000	-.2950	-.2340	-.2750	-.2980	-.2970	-.2810

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = 1.203   BETA (5) = 6.079

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3180	-.2590	-.2470	-.3060	-.3030	-.2880
30.000	-.2290	-.2260	-.2390	-.2770	-.2830	-.3180
60.000	.3290	.4490	.0150	-.2770	-.3280	-.3040
90.000	.0750	.2300	.1920	-.2510	-.3240	-.3040
120.000	-.2300	-.2130	-.2470	.3220	-.3040	-.3090
150.000		-.3230	-.3080		-.3060	
180.000	-.3260	-.2910	-.3090	-.3790	-.2940	
210.000	-.2860	-.2920	-.3340	-.2930	-.2850	-.3110
240.000	-.2840	-.3000	-.2970	-.2850	-.3100	-.2900
270.000	-.3020	-.3010	-.2910	-.3130	-.2930	-.2910
300.000	-.3180	-.3000	-.3210	-.3070	-.2970	-.3020
330.000	-.2990	-.3230	-.2610	-.3060	-.3100	-.3050
360.000	-.3180	-.2590	-.2470	-.3060	-.3030	-.2880

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (RUFC07)   (15 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES		BETA	=	.000	POWER	=	1.000
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES		OPR	=	28.310	SRMPR	=	2.020
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES		GP1	=	11.000	GY1	=	-9.000
SCALE	=	.0190 SCALE					GP2	=	.000	GY2	=	-9.000
							GP3	=	.000	GY3	=	-9.000

MACH (1) =   1.199   ALPHA (1) = -8.108

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3780	-.3280	-.3200	-.3130	-.2930	-.2740
30.000	-.0670	-.2460	-.2830	-.2990	-.2760	-.2930
60.000	.3670	.4410	-.0140	-.2640	-.3040	-.2810
90.000	.0120	.2220	.1130	-.2820	-.2820	-.2830
120.000	-.2700	.2170	.2700	-.3070	-.2850	-.2920
150.000		.2750	.2850		-.2920	
180.000	-.2090	-.2490	-.2930		-.2780	
210.000	-.2040	-.2610	-.3190	-.3410	-.2710	-.2870
240.000	-.2050	-.3100	-.3230	-.3090	-.3050	-.2850
270.000	-.4510	-.4050	-.3590	-.3670	-.3090	-.3080
300.000	-.3280	-.3300	-.3460	-.3100	-.3110	-.3050
330.000	-.3280	-.3440	-.3020	-.3060	-.3040	-.2940
360.000	-.3780	-.3280	-.3200	-.3130	-.2930	-.2740

MACH (1) =   1.198   ALPHA (2) = -4.075

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3540	-.3090	-.3010	-.2910	-.2710	-.2630
30.000	-.1970	-.2700	-.2730	-.2800	-.2620	-.2900
60.000	.3160	.3100	-.1010	-.2700	-.2900	-.2710
90.000	.0090	.1940	.0360	-.3230	-.2750	-.2770
120.000	-.2480	-.2240	.3170	-.2820	-.2770	-.2850
150.000		-.2760	.2700		-.2780	
180.000	-.2150	-.2350	-.2850		-.2600	
210.000	-.1350	-.2600	-.2910	-.3100	-.2620	-.2970
240.000	-.2580	-.2920	-.2910	-.2930	-.3140	-.2800
270.000	-.4390	-.3060	-.2630	-.3590	-.2920	-.2980
300.000	-.3040	-.3070	-.3450	-.2940	-.2990	-.2890
330.000	-.2860	-.3310	-.2850	-.2900	-.2970	-.2750
360.000	-.3540	-.3090	-.3010	-.2910	-.2710	-.2630

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (RUFC07)

MACH (1) = 1.197   ALPHA (3) = -.023

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3210	-.2890	-.2950	-.2780	-.2740	-.2650
30.000	-.2550	-.2710	-.2840	-.2670	-.2660	-.2780
60.000	.2100	.1820	-.1600	-.2810	-.2800	-.2820
93.000	.0120	.1640	.0400	-.3150	-.2770	-.2890
120.000	-.2360	-.2280	-.3150	-.2780	-.28?0	-.2790
150.000		-.2500	-.2710		-.2750	
190.000	-.2020	-.2540	-.2820	-.2690	-.2670	
210.000	-.1930	-.2650	-.2730	-.2790	-.2700	-.2920
240.000	-.2520	-.2840	-.2830	-.2870	-.3070	-.2710
270.000	-.4260	-.3730	-.3410	-.3550	-.2840	-.2980
3?0.000	-.3080	-.2950	-.3250	-.3000	-.2930	-.2780
330.000	-.2730	-.3040	-.2910	-.2940	-.2780	-.2730
360.000	-.32?0	-.2890	-.2950	-.2780	-.2740	-.2650

MACH (1) = 1.196   ALPHA (4) = 4.017

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0000	-.2750	-.2730	-.2960	-.2660	-.2850
30.000	-.2320	-.2690	-.2900	-.2590	-.2840	-.0000
60.000	-.1360	-.0160	-.2220	.0000	.0000	-.2720
90.000	-.0010	-.1370	.0950	.0000	-.2690	-.2770
120.000	-.2020	-.2300	.0000	-.2730	-.2720	-.2910
150.000		.0000	-.2640	.0000	-.2030	
180.000	.0000	-.2320	-.2760	-.3140	-.2680	.0000
210.000	-.1250	-.2330	-.3130	-.2730	-.2330	-.2690
240.000	-.1920	-.3080	-.2880	-.3190	.0000	-.2960
270.000	-.4820	-.3380	-.3660	.0000	-.2970	-.2960
300.000	-.2980	-.3200	.0000	-.2980	-.2960	-.3080
330.000	-.3000	.0000	-.2660	-.2840	-.3010	-.2710
360.000	.0000	-.2750	-.2790	-.2960	-.2660	-.2850

DATE 05 NOV 75   TABULATED DATA FOR CAL T:4-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NCZ.   (RUFC07)

MACH (:) =   1.200   ALPHA (5) =   6.028

SECTION (1)LOWER RH MPS NCZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0000	-.2600	-.2730	-.2850	-.2760	-.2610
30.000	-.2370	-.2620	-.2840	-.2660	-.2560	.0000
60.000	-.0420	-.0930	-.2490	-.2610	.0000	-.2630
90.000	-.0140	.1000	-.1180	.0000	-.2540	-.2720
120.000	-.2090	-.1920	.0000	-.2600	-.2650	-.2830
150.000	.0000	.0000	-.2470		-.2830	
180.000	-.1270	-.2230	-.2670	-.2990	-.2730	
210.000	-.1710	-.2490	-.2950	-.2680	-.2620	.0000
240.000	-.4700	-.2950	-.3050	-.2980	.0000	-.2610
270.000	-.3180	-.3980	-.3520	.0000	-.2830	-.2800
300.000	-.2770	-.3030	.0000	-.2880	-.2750	-.2960
330.000	.0000	.0000	-.2650	-.2660	-.2900	-.2780
360.000		-.2600	-.2730	-.2850	-.2760	-.2610

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.

(RUFC08)   (15 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000	INCHES
LREF =	90.7000 INCHES	YMRP =	.0000	INCHES
BPEF =	90.7000 INCHES	ZMRP =	.0000	INCHES
SCALE =	.0190 SCALE			

PARAMETRIC DATA

ALPHA =	.000	POWER =	1.000
OPR =	28.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) = 1.194   BETA (1) = -6.074

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3580	-.3370	-.3270	-.3110	-.3050	-.3000
30.000	-.3370	-.3360	-.3050	-.2950	-.2940	-.3110
60.000	-.1150	-.0540	-.2910	-.2980	-.3020	-.3040
90.000	-.1290	-.0460	-.1480	-.3220	-.3010	-.3040
120.000	-.2810	-.2570	-.3240	-.2930	-.2920	-.3030
150.000		-.3000	-.2910		-.2960	
180.000	-.2800	-.2870	-.3090	-.3050	-.6650	
210.000	-.2510	-.2910	-.3070	-.3240	-.2920	-.3050
240.000	-.2570	-.2920	-.3100	-.3120	-.3280	-.3030
270.000	-.4700	-.4570	-.4070	-.3990	-.3430	-.3270
300.000	-.3120	-.3770	-.3800	-.3550	-.3350	-.3220
330.000	-.3280	-.3460	-.3430	-.3240	-.3160	-.3060
360.000	-.3380	-.3370	-.3270	-.3110	-.3050	-.3000

MACH (1) = 1.194   BETA (2) = -3.044

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	.0000	-.3360	-.3300	-.3310	-.2900	-.3090
30.000	-.2050	-.3260	-.3250	-.2630	-.3040	.0000
60.000	-.1170	.0260	-.2250	-.3160	.0000	-.3090
90.000	-.1120	.1110	.1190	.0000	-.3050	-.3090
120.000	-.2670	-.2650	.0000	-.2990	-.3000	-.3190
150.000		.0000	-.2930		-.3180	
180.000	.0000	-.2930	-.3090	-.3200	-.2810	
210.000	-.2500	-.2870	-.3210	-.2910	-.3040	.0000
240.000	-.2570	-.3120	-.2560	-.3750	.0000	-.3030
270.000	-.4730	-.4180	-.1110	.0000	-.3420	-.3240
300.000	-.3510	-.3740	.0000	-.3580	-.3270	-.3370
330.000	-.3310	.0000	-.3410	-.3250	-.3330	-.2930
360.000	.0000	-.3360	-.3300	-.3310	-.2900	-.3090

DATE 05 NOV '75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.   (RUFC03)

MACH (1) = 1.199   BETA (3) = .000   DEPENDENT VARIABLE CP

SECTION (1) LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.2980	-.2950	-.2930	-.2840	-.2540	-.2550
30.000	-.2520	-.2670	-.2910	-.2680	-.2540	-.2750
60.000	-.1900	-.1270	-.1580	-.2650	-.2750	-.2840
90.000	-.0280	.1640	.0280	-.2940	-.2810	-.2860
120.000	-.2310	-.2160	-.2920	-.2860	-.2850	-.2860
150.000		-.2340	-.2790		-.2820	
180.000	-.2000	-.2560	-.2780	-.2790	-.2550	
210.000	-.1940	-.2570	-.2790	-.2620	-.2560	-.2720
240.000	-.2490	-.2950	-.2650	-.2730	-.2780	-.2790
270.000	-.4180	-.3620	-.3070	-.3170	-.2950	-.2930
300.000	-.2910	-.2630	-.3040	-.3020	-.2930	-.2840
320.000	-.2590	-.2870	-.2920	-.2920	-.2640	-.2530
360.000	-.2980	-.2950	-.2930	-.2840	-.2640	-.2550

MACH (1) = 1.195   BETA (4) = 3.049   DEPENDENT VARIABLE CP

SECTION (1) LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3350	-.3340	-.3190	-.2960	-.2760	-.3850
30.000	-.2260	-.2560	-.2900	-.2870	-.3720	-.2970
60.000	.3050	.2950	-.0790	-.3200	-.3020	-.3020
90.000	.0190	.2340	-.1830	-.2730	-.3050	-.2830
120.000	-.2240	-.2310	-.2810	-.3130	-.2830	-.2890
150.000		-.2910	-.3070		-.2810	
180.000	-.2140	-.2630	-.2680	-.3060	-.2830	
210.000	-.1950	-.2370	-.3030	-.3070	-.2940	-.2970
240.000	-.2180	-.2810	-.3090	-.3230	-.3160	-.3090
270.000	-.4250	-.3960	-.1790	-.3640	-.3400	-.3040
300.000	-.3110	-.3600	-.3470	-.3580	-.3220	-.2990
330.000	-.4500	-.3370	-.3490	-.3190	-.3960	-.2800
360.000	-.3350	-.3340	-.3190	-.2960	-.2760	-.3850

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + Ti + Si LOWER RH MPS, NOZ.   (RUFCO8)

MACH (1) = 1.197   BETA (5) = 6.079

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
PHI						
.000	-.3480	-.3120	-.3250	-.3180	-.3020	-.2950
30.000	-.1680	-.2010	-.2520	-.2950	-.2970	-.2940
60.000	.3390	.3570	.0040	-.2780	-.3130	-.2910
90.000	.0490	.2610	.1570	-.2400	-.3030	-.2790
120.000	-.2190	.2030	.2760	-.3190	-.2830	-.2850
150.000		.2890	.3060		-.2880	
180.000	-.2010	-.2600	-.2880	-.3000	-.2930	
210.000	-.1860	-.2420	-.3000	-.3100	-.2860	-.2940
240.000	-.2300	-.2580	-.3270	-.3250	-.3130	-.2930
270.000	-.4260	-.3560	-.3440	-.3750	-.3120	-.3050
300.000	-.2750	-.2650	-.3480	-.7250	-.3160	-.3080
330.000	-.3020	-.3400	-.3260	-.3230	-.3050	-.3040
360.000	-.3480	-.3120	-.3250	-.3180	-.3020	-.2950

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE

REFERENCE DATA

SREF =	49.4000	SQ.FT.
LREF =	90.7000	INCHES
BREF =	90.7000	INCHES
SCALE =	.0190	SCALE

XMRP =	158.0000	INCHES
YMRP =	.0000	INCHES
ZMRP =	.0000	INCHES

(NJFA01)   (18 DEC 75)

PARAMETRIC DATA

BETA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = .901   ALPHA (1) = -8.088

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449						
-.434	-.0430	.1080				
-.418						
-.397			-.0300	.0000		
-.389				-.0610		
-.344					.0000	
-.336					-.0190	
-.291						.0000
-.266						
-.251	-.0560	.4960				
-.241			.5220			-.0060
-.230				-.0780		
-.225					-.0340	
-.198					-.0060	.0110
-.168					-.0010	-.0210
-.133	.2490	.4520	.5120	.3000		-.0230
-.000			.6790	.4000		
.133						.0050
.168	.3810	.5690				
.198					-.0110	.0000
.225				-.1410	.0000	
.241			-.1190			
.336	.5750	.0820	.0000			
.389	.0000	.0000				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S: UPPER MPS NOZZLE   (NUFAO1)

MACH (1) = .900   ALPHA (2) = -4.049

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/CE	.0580	.2320	.4060	.5800	.7540	.9280
Y/CE						
-.502	.0000	.0000	.0000			
-.482						
-.449	-.0230	.0660		.0000		
-.434						
-.416			-.0260	-.0520		
-.397					.0000	
-.369					-.0230	
-.344						
-.336						.0000
-.291						
-.266	-.0700	.4790				-.0070
-.251			.5040	-.0680	-.0450	
-.241						
-.230						.0190
-.225	.2100	.4060	.5040	.1760	-.0100	-.0160
-.198						-.0140
-.168					.0190	
-.133				.3030		
-.000			.5550			.9130
.133						
.168	.3890	.5560				.0000
.198						
.225				-.1160	-.0030	
.230			-.1100	.0000	.0000	
.241						
.251						
.266	.5150	.0060	.0000			
.291						
.336						
.344						
.369	.0000	.0000				
.397						
.418						
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 :A36 02 + T1 + S1 UPPER MPS NOZZLE   (NUFA01)

MACH (1) =   .900   ALPHA (3) =   .013

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/CE						
-.502	.0000					
-.482		.0000				
-.443			.0000			
-.434	-.0260					
-.418		.0440				
-.397			.0000			
-.389			-.0170			
-.344				-.0600		
-.335					.0000	
-.291					-.0020	
-.266						.0000
-.251	-.0840					
-.241		.4370				
-.230			.4720			
-.225				-.0690		
-.198					-.0530	
-.168						-.0060
-.133						
.000	.2090	.4110	.4680	.1480	-.0080	.0280
.133						-.0200
.163						-.0300
.198					.0160	
.225			.4630	.2800		
.230						.0080
.241	.3110	.4570				
.251						
.266						.0000
.291						
.336				-.1050		
.344			-.0700		-.0230	
.389				.0000	.0000	
.397		.0110				
.418						
.434	.4080					
.443			.000C			
.482		.000C				
.502	.0000					

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

MACH (1) = .899   ALPHA (4) = 4.005

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (NUFAO:)

SECTION (1)UPPER MPS NOZZLE

DEPENDENT VARIABLE DELCP

X/DE	.0530	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000				
-.449						
-.434	-.0220		.0000			
-.418		-.0490				
-.397						
-.389			.0000			
-.344			-.0010	.0000		
-.336				-.0660		
-.291					.0000	
-.266					-.0090	
-.251	-.0900					.0000
-.241		.4280				
-.230			.4660			
-.225				-.0780		
-.199					-.0440	
-.168						-.0070
-.133						
.000	.2090					
.133		.4410		.1340	.0120	.0460
.168			.4800			-.0110
.198					.0230	-.0320
.225				.2260		
.230			.4090			
.241		.4190				
.251	.3120					
.266						.0040
.291					-.0180	.0000
.335				-.0800		
.344			-.0510	.0000		
.383						
.397		.0330	.0000			
.418	.3120					
.434						
.449						
.482		.0000				
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   (NUFA01)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = .899   ALPHA (5) = 6.006

SECTION (1) UPPER MPS NOZZLE

DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000	.0000		.0000
-.482						
-.449	-.0440	.0490	.0070	-.0440		
-.434						
-.418					.0000	
-.397					.0130	.0000
-.309						
-.344						
-.336						
-.291						
-.265	-.0990	.4490	.5120	-.0550	-.0410	-.0270
-.251						
-.241						
-.230						.0300
-.225						-.0090
-.198	.1990	.4360	.5090	.1290	-.0170	-.0510
-.168					.0240	
-.133						
.000			.3590	.1940		.0260
.133						
.168						
.198						
.225	.2990	.3990				.0000
.230						
.241					-.0370	
.251					.0000	
.266						
.231				-.0820		
.335				.0000		
.344			-.0180			
.389			.0000			
.397	.2860	.0370				
.418						
.434						
.449	.0000	.0000				
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 187

CAL T14-053 1A36 O2 + T1 + S! UPPER MPS NOZZLE

REFERENCE DATA

SPEF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BPEF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = .901   BETA (1) = -6.079

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.443						
-.434	-.0360	.2770				
-.418			.1110	.0000		
-.397						
-.383			-.0170			
-.344				.0000		
-.336				.0070		
-.291					.0000	
-.266	.0870	.0910				
-.251			.0390	.0250	-.0180	
-.241						
-.230				-.0200	.0300	
-.225	.0730	.0950	.0450	-.0040	.0160	-.0040
-.198				.0160	-.0340	
-.168				.0260		
-.133			-.0070		.0120	
.000	-.0950	.1280				
.133				-.0220	.0000	
.168			.0070	.0030		
.198				.0000		
.225	.0210	.0010				
.230	.0000	.0000	.0000			

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE (NUFA02)

MACH (1) = .900 BETA (2) = -3.049

SECTION (1) UPPER MPS NOZZLE DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	-.0260	.2050				
-.434			.1370	.0000		
-.418				-.0240	.0000	
-.397					.0120	.0000
-.344						-.0060
-.291	.0140	.2270	.1830	-.0170	-.0140	
-.225	.0950	.2260	.1770	.0260	-.0010	.0180
-.198						-.0060
-.168				.0640	.0090	-.0240
-.133			.3130			.0160
.000	.1930	.4000				
.291			-.0220	-.0490	-.0140	.0000
.336				.0000	.0000	
.418	.1180	-.0460				
.502	.0000	.0000	.0000			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE   (NUFA02)

MACH (1) = .901   BETA (3) = .000

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	-.0210					
-.434		.0610				
-.418			.0010	.0000		
-.337				-.0550		
-.309					.0000	
-.344					-.0170	
-.335						.0000
-.291						
-.266						.0000
-.251	-.0820	.4300	.4500	-.0790		
-.241						
-.230						
-.225						
-.198						
-.168						
-.133						
-.000	.2180	.4200	.4680	.1570	.0030	.0260
.133					-.0140	
.168					-.0310	
.198				.0110		
.225				.2670		
.230			.4740			
.241					.0080	
.251	.3230	.4490				
.266						.0000
.291					-.0050	
.335					.0000	
.344			-.0740	-.1030		
.389				.0000		
.397						
.418	.3830	.0100				
.434			.0000			
.449						
.482	.0000	.0000				
.502						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (NUFA02)

MACH (1) = .900   BETA (4) = 3.051

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	-.0050	-.1430				
-.434			-.1910	.0000		
-.418				-.0550	.0000	
-.397					-.0380	.0000
-.389						
-.344	-.1580					-.0050
-.336		.4710	.4890	-.1010	-.0520	
-.291						-.0010
-.266					.0120	-.0130
-.251	.2300	.4670	.4910	.4950	.0020	-.0390
-.241				.4390		
-.230			.4800			.0090
-.225	.4140	.5320				
-.198				-.1410	-.0410	.0000
-.168			-.0600	.0000	.0000	
-.133	.5880	.2180				
.000	.0000	.0000	.0000			

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE   (NJFA02)

MACH (1) = .901   BETA (5) = 6.089

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	-.0420					
-.434		-.2370				
-.418			-.2810	.0000		
-.397				-.0610		
-.389						
-.344					.0000	
-.336					-.0420	
-.291						
-.256						.0000
-.251	-.1550					
-.241		.5390				
-.230			.5400			
-.225				-.2110		-.0260
-.198					-.0430	
-.169						
-.133	.2970	.5390	.5530	.6110	.2140	-.0050
-.133						-.0080
-.168						-.0430
-.198			.5870			
-.225					.0420	
-.230						
-.241	.5640		.6460			
-.251		.7130				
-.266						-.0040
-.291				-.1910	-.0600	
-.336					.0000	.0000
-.344	-.0030		-.0030			
-.353						
-.397				.0000		
-.418		.5010				
-.434	.8230					
-.449		.0000	.0000			
-.462	.0000					
-.502	.0000					

CAL T14-053 (1A36 O2 + T1 + S1 UPPER MPS NOZZLE

(NUFA03)   (18 DEC 73)

REFERENCE DATA

SPEF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES		
LREF = 90.7000 INCHES	YMRP = .0000 INCHES		
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES		
SCALE = .0190 SCALE			

PARAMETRIC DATA

BETA = .000	POWER = 1.000
OPR = 36.200	SRMPR = 2.330
GP1 = 11.000	GY1 = -9.000
GP2 = .000	GY2 = -9.000
GP3 = .000	GY3 = -9.000

MACH (1) = .897   ALPHA (1) = -8.088

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000				
-.449						
-.434						
-.418	-.2320	.2390				
-.397			.0000			
-.389						
-.344			-.0040			
-.336				.0000	.0000	
-.291				-.1140	.0190	.0000
-.266						
-.251	-.2090	.5270				
-.241			.5740			.0260
-.230						
-.225				-.0790	-.0400	.0520
-.158					.0140	-.0140
-.168					-.0590	
-.133	.2550	.5370	.5860	.3480	.0050	
-.000				.8340		-.0230
.133						
.168			.7490			
.198						
.225						
.230						
.241	.4520	.6450				
.251						.0000
.266					-.0550	
.291				-.1670	.0000	
.336			-.0840			
.344						
.389				.0000		
.397	.7050	-.0160				
.418						
.434			.0000			
.449						
.482						
.502	.0000	.0000				

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + T1 + S: UPPER MPS NOZZLE

(NUFA03)

MACH (1) = .899   ALPHA (2) = -4.038

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449						
-.434	-.2010					
-.418		.0890				
-.397			-.0360	.0000		
-.389						
-.344				-.0730		
-.336					.0000	
-.291					-.0470	.0000
-.266						
-.251	-.2680	.4820				.0270
-.241						
-.230			.5270	-.0900		
-.225					-.0190	
-.199						
-.168						-.0150
-.133	.1780	.4980	.5500	.1880	-.0020	-.0210
.000					.0040	-.0080
.133						
.168						
.198			.6150	.6480		
.225						-.0160
.230	.4320	.6060				
.241						
.251					.0040	.0000
.266					.0000	
.291				-.1110		
.336			-.1050	.0000		
.389		-.0600				
.397			.0000			
.418	.5750					
.434						
.449		.0000				
.482	.0000					
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE   (NUFAC3)

MACH (1) = .901   ALPHA (3) = .001

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449						
-.434	-.1960					
-.418		.0780				
-.397				.0000		
-.383			-.0220			
-.344				-.0800		
-.336					.0000	
-.291					-.0480	
-.266						.0000
-.251	-.2600	.4440				
-.241						.0190
-.230			.5110	-.0710		
-.225					-.0140	
-.198						-.0300
-.168						-.0040
-.133						.0030
-.000	.1430	.4570	.5230	.1480	.0160	
-.131					.0180	
.168			.5150	.5390		
.198						-.0060
.225						
.230		.5170				
.241	.3510					
.251					.0010	
.256					.0000	.0000
.291				-.0890		
.336			-.1000			
.349				.0000		
.397		-.0560				
.418	.4760					
.443			.0000			
.482	.0000					
.502						

DATE 05 NOV 75   "ABLATED DATA FOR CAL 714-053 (1A35)

(NUFA03)

CAL 714-053 1436 02 + T: + S1 UPPER MPS NOZZLE

MACH ( ) = .902   ALPHA ( ) = 4.026

SECTION ( )UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE   .0580   .2320   .4060   .5800   .7540   .9280

Y/DE	.0580	.2320	.4060	.5800	.7540	.9280
.502	.0000	.0000	.0000			
.482	-.1590	.0840		.0000		
.449			.0010	-.0820		
.434					.0000	.0000
.418					-.0500	
.397	-.2610	.4610	.5390	-.0750	-.0180	.0090
.389	.1550	.4870	.5680	.1570	.0020	.0100
.344					.0020	.0020
.336					.0260	-.0010
.291			.4400	.3140		
.266	.3360	.4870				-.0040
.251					.0230	.0000
.230					.0000	
.225	.3610	-.0400	-.0990	-.0760		
.198	.0000	.0000	.0000	.0030		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (NUFAC3)

MACH (1) = .898   ALPHA (5) =   6.021

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	-.1900	.0460				
-.434			.0190	.0000		
-.418				-.0780		
-.397					.0000	
-.369					.0150	.0000
-.344						
-.336						.0050
-.291	-.2550	.4810				
-.266			.5840	-.0350		
-.251					-.0170	
-.241			.5780	.1780	.0210	.0510
-.230						-.0040
-.225					.0260	-.0280
-.198	.1780	.4690		.2450		
-.168			.1270			
-.133						.0000
.000	.3000	.4850			-.0420	
.133					.0000	.0000
.168			-.0640	-.0740		
.198			.0000	.0000		
.434	.3520	.0040				
.482	.0000	.0000				
.502						

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE

REFERENCE DATA   (NUFA04)   (18 DEC 73)

			PARAMETRIC DATA	
SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES		ALPHA = .000	POWER = 1.000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES		OPR = 36.200	SHMPR = 2.330
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES		GP1 = 11.000	GY1 = -9.000
SCALE = .0190 SCALE			GP2 = .000	GY2 = -9.000
			GP3 = .000	GY3 = -9.000

MACH (1) = .893   BETA (1) = -5.078

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	-.1760	.3820				
-.434						
-.418						
-.397			.1550	.0000		
-.389				-.0530		
-.344					.0000	
-.336					-.0060	.0000
-.291						
-.266						
-.251	.0910	.0890				
-.241						
-.230			.0450			
-.225				.0040		.0220
-.198						
-.168						
-.133	-.0100	.1000	.0630	.0020	-.0300	.0260
.000				.0040		.0120
.133				.0280		-.0210
.168						
.198			.0360	.0240		
.225						
.230	.1010	.2460				
.241						
.251						-.0050
.266						.0000
.291				-.0030		
.356				.0000		
.344		.0220		.0280		
.389						
.397	.0320			.0000		
.418						
.434	-.0070					
.443						
.482	.0000	.0000				
.502		.0000				

(NUFA04)

CAL T14-053 ;A36 O2 + T1 + S; UPPER MPS NOZZLE

MACH (1) = .900   BETA (2) = -3.049

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502		.0000				
-.482			.0000			
-.449	-.1390	.2090				
-.434						
-.418			.0000			
-.397		.2000				
-.369			-.0740			
-.344				-.0000		
-.336				-.0030	.0000	
-.291						
-.266	-.1120	.2450				
-.251			.2530	-.0050	.0230	
-.241						
-.230						
-.225	-.0070	.2560	.2670	.0280	-.0010	.0300
-.193					-.0020	.0020
-.168						-.0350
-.133					.0180	
.000			.3930	.1290	.0050	
-.133	.2090	.4420				
-.168				-.0070	.0000	
-.198				.0000		
-.225			-.0460	-.0470		
-.230				.0000		
-.241	.1630	-.0640				
-.251			.0000			
-.266	.0000	.0000				

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CAL T14-053 IA36 02 + T1 + S1 UPPER MPS NOZZLE   (NUFA04)

MACH (1) = .899   BETA (3) = .000

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000	.0000	.0000	.0000
-.482						
-.449	-.1610	.0440	-.0260	-.0780		
-.434						
-.418						
-.397						
-.389						
-.344						
-.336				.0000	-.0130	.0190
-.291				-.0130		
-.266	-.2580	.4410	.4960	-.C690		
-.251						
-.241						
-.230						
-.225					.0000	.0180
-.198	.1390	.4440	.5110	.1630	.0000	.0010
-.168					.0220	-.0230
-.133			.5350	.3810		
.000						-.0090
.133	.3480	.5160				
.168						
.198						
.225					-.0030	.0000
.230				-.0960	.0000	
.241	.4320	-.0390	-.0980			
.251						
.266						
.291						
.335						
.344	.0000	.0000	.0000	.0000		
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   (NUFA04)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = .898   BETA (4) = 3.051

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449		.0000				
-.434	-.1630	-.2020				
-.418			.0000			
-.397			-.3240	-.0500		
-.389						
-.344				.0000		
-.336				-.0480		
-.291					.0000	
-.266						.0230
-.251	-.3730	.5080				
-.241			.5320	-.1540		
-.230					-.0420	
-.225						-.0030
-.198						-.0070
-.168						-.0380
-.133	.2170	.5310	.5580	.6030	.0040	
.000					.0100	
.133						
.168			.5500	.5380		
.198						-.0220
.225	.4940	.6180				
.230						
.241					-.0360	.0000
.251					.0000	
.266			-.0540	-.1450		
.291						
.335	.6450	.0830		.0000		
.344						
.389						
.397	.0000	.0000	.0000			
.418						
.434						
.449						
.482						
.502						

DATE 05 NOV 75 　　　　TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE 　　(NUFA04)

MACH (1) = .899　　BETA (5) = 6.088

SECTION (1)UPPER MPS NOZZLE　　　DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502		.0000				
-.482						
-.449			.0000			
-.434	-.2630	-.2580				
-.418						
-.397						
-.389			-.4010	.0000		
-.344				-.0720		
-.335					.0000	
-.291					-.0650	
-.266						.0000
-.251	-.3450	.5820				
-.241						
-.230			.5920			
-.225				-.2610		
-.198					-.0450	
-.168						
-.133						
.000	.2960	.6160	.6280	.7190	.2580	-.0190
.133						-.0060
.168						-.0480
.198					.0270	
.225				.6430		
.230			.7110			
.241						-.0420
.251	.6750	.8370				
.266						.0000
.291					-.0540	
.336				-.2000	-.0000	
.344				.0000		
.389			.0150			
.397				.0000		
.418	.8890	.3920				
.434						
.449	.0000	.0000				
.482						
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T! + S1 UPPER MPS NOZZLE

(18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

(NUFA05)

PARAMETRIC DATA

BETA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = 1.203   ALPHA (1) = -8.101

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.492		.0000	.0000			
-.449	-.0090					
-.434		.5770				
-.418			.2720	.0000		
-.397						
-.389				-.0130		
-.336					.0000	
-.291					-.0240	.0000
-.266						
-.251	.0550					
-.241		.7210				
-.230			.7320			-.0110
-.225				.2630		
-.198					-.0430	.0070
-.168	.4770	.7090	.7320	.8960	.0520	-.0180
-.133					.0510	-.0250
.000				.7540		
.133			.8330			
.168						
.198						-.0050
.225	.5980	.7000				
.230						
.241				-.0890	-.0340	.0000
.251					.0000	
.266		-.1070				
.291	.9050	.3500				
.336			.0000	.0000		
.344	.0000	.0000				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + TI + SI UPPER MPS NOZZLE   (NUFA05)

MACH (1) = 1.202   ALPHA (2) = -4.038

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000	.0000	.0000		
-.449						
-.434	-.0060	.3490				
-.418						
-.397			.2000	.0000		
-.389						
-.344				-.0430		
-.336					.0000	.0000
-.291					-.0120	
-.266	.0560	.6120				
-.251						-.0030
-.241			.6360	.1410		
-.230					-.0200	
-.225						
-.198						
-.168						
-.133	.4120	.6010	.6350	.7660	.0370	.0190
.000					-.0210	
.133					.0410	-.0260
.168			.7710	.6930		
.198						
.225						.0120
.230	.5420	.6790				
.241						
.251				-.0380	.0000	
.266				.0000		
.291			-.0700			
.336						
.344						
.389	.8210	.1830				
.397			.0000	.0000		
.418						
.434	.0000	.0000				
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + T1 + S1 UPPER MPS NOZZLE   (NUFA05)

MACH (1) = 1.203   ALPHA (3) = -.011

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0010	.2220				
-.434						
-.418			.1430	.0000		
-.397						
-.389				-.0490	.0000	
-.344					-.0040	
-.336						.0000
-.291	.0140	.5260				
-.266			.5330			-.0070
-.251				.0740	-.0140	
-.241						.0260
-.230	.3090	.5160	.5310	.6800	.0210	-.0120
-.225					.0440	-.0370
-.198			.6850	.6410		
-.168						.0020
-.133	.5230	.6430			-.0100	
.000					.0000	.0000
.133			-.0480	-.0440		
.168		.1280		.0000		
.198	.6410					
.225	.0000	.0000	.0000			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 Q2 + T1 + S1 UPPER MPS NOZZLE   (NUFAC5)

MACH (1) = 1.203   ALPHA (4) = 4.003

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000	.0000	.0000		
-.449						
-.434	-.0060					
-.418		.2330	.1180	.0000		
-.397						
-.389				-.0670		
-.344						
-.336					.0000	
-.291					.0050	.0000
-.266						
-.251	.0200	.5230				
-.241						-.0040
-.230						
-.225			.5140	.0460		
-.198						
-.168						
-.133						
.000	.3350	.5280	.5130	.5890	.0180	.0160
.133					.0180	-.0180
.168				.0370		-.0290
.198				.5370		
.225			.5570			
.230						
.241	.4400	.5510				-.0050
.251						
.266						.0000
.291				-.0140		
.336			-.0340		-.0140	
.344					.0000	
.383				.0000		
.397				.0000		
.418	.4780					
.434		.1510				
.449			.0000			
.482		.0000				
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE   (NUFA05)

MACH (1) = 1.202   ALPHA (5) =   6.018

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000	.0000			
-.449						
-.434	-.0280	.2640				
-.418			.1380	.0000		
-.397						
-.389				-.0880		
-.344					.0000	
-.336					.0210	
-.291						.0000
-.266						
-.251	-.0050	.6160				
-.241			.6260			.0010
-.230						
-.225				.0130	-.0190	
-.198						
-.168						.0300
-.133	.4100	.6140	.6230	.5290	.0160	-.0130
-.000						-.0300
-.133					.0620	
-.168				.0144		
-.198			.4260			.0010
-.225						
-.230						
-.241		.4870				
-.251	.4380				-.0210	.00
-.266					.0000	
-.291						
-.336			-.0070	.0000		
-.344						
-.369		.0040		.0000		
-.397						
-.418	.3820	.2300				
-.434						
-.449	.0000	.0000	.0000			
-.482						
-.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-C53 (1A36)   PAGE 207

CAL T14-C53 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

REFERENCE DATA

SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES	
LREF = 90.7000 INCHES	YMRP = .0000 INCHES	
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES	
SCALE = .0190 SCALE		

PARAMETRIC DATA   (NUFA05)   (18 DEC 73)

ALPHA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = 1.202   BETA (1) = -6.079

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE   .0580   .2320   .4060   .5800   .7540   .9280

Y/DE						
-.502						
-.482	.0000	.0000	.0000			
-.449						
-.434	.0560	.5890		.0000		
-.418						
-.397			.3650	.0030		
-.389						
-.344					.0000	
-.336					.0070	
-.291						.0000
-.266	.2130	.3060				
-.251			.3970	.2300	.0070	.0050
-.241						
-.230						
-.225	.1650	.2960	.4080	.0950	-.0120	.0310
-.198						-.0010
-.168				.1830	.0290	-.0280
-.133			.6150			
.000						-.0050
.133	.3010	.5250				
.168						.0000
.198					-.0100	
.225				.0170	.0000	
.230			-.0210	.0000		
.241	.0990	-.0350				
.251	.0000	.0000	.0000			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 208

CAL T14-053 1A36 C2 + T1 + S1 UPPER MPS NOZZLE   (NJFA06)

MACH (1) = 1.202   BETA (2) = -3.051

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/CE	.0580	.2320	.4060	.5800	.7500	.9280
Y/CE						
-.502	.0000	.0000	.0000			
-.482						
-.449	-.0090	.3890		.0000		
-.434			.3740	.0160		
-.418					.0000	
-.397					-.0190	.0000
-.369						
-.344	.1480	.4170				.0020
-.336			.5070	.1990	-.0170	
-.291						
-.266	.2050	.4180	.5100	.3630	.0010	.0380
-.251					.0080	.0080
-.241						-.0300
-.230			.7190	.3760		
-.225		.5380				-.0070
-.198						
-.158	.3880		.0280	-.0230	-.0170	.0000
-.133				.0000	.0000	
-.000	.2300	-.0130	.0000			
-.449	.0000	.0000				
-.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

MACH (1) = 1.202   BETA (3) = .000

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (NUFA06)

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000				
-.482			.0000			
-.449	.0000					
-.434		.2120				
-.418						
-.397			.1690	.0000		
-.389				-.0460		
-.344					.0000	
-.336					.0000	
-.291						.0000
-.266	.0150	.5190				
-.251			.0000	.0000		.0000
-.241						
-.230						
-.225					-.0140	
-.198	.3310	.0000	.0000	.6800	.0230	.0260
-.168					.0330	-.0100
-.133						-.0340
-.000			.6980	.0000		
.133						-.0090
.168	.5070	.0000				
.198					.0000	.0000
.225					.0000	
.230			-.0540	-.0460		
.241			.0000	.0000		
.251	.0000	.1180				
.266						
.291	.0000	.0000				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (NUFA06)

MACH (1) = 1.203   BETA (4) = 3.051

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0320					
-.434		.0290		.0000		
-.418			-.1260	-.0730	.0000	.0000
-.397					-.0080	
-.369						-.0130
-.344	-.0610	.6390	.8160	-.1300	-.0320	.0070
-.336					.1860	.0620
-.291						.0510
-.266	.4700	.6450	.6350	.6570		
-.251					.0420	
-.241			.7250	.6250		.0040
-.230	.6200	.6660				
-.225				-.0760	-.0570	.0000
-.198			-.0160	.0000	.0000	
-.168		.4900				
-.133	.9020					
-.000	.0000	.0000	.0000			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 (A36 O2 + T1 + S1 UPPER MPS NOZZLE   (NO PA06)

MACH (1) = 1.203   BETA (5) = 6.079

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482		.0000	.0000			
-.449						
-.434	-.0490	-.1180				
-.418						
-.397			-.1790	.0000		
-.399				-.0690		
-.344					.0000	
-.336					-.0080	
-.291						.0000
-.266						
-.251	-.0860	.7390				
-.241						
-.230			.7020	-.1910		-.0220
-.225					-.0750	
-.198						
-.168						
-.133	.5480	.7430	.7170	.6930	.6840	.0130
-.000					.0400	-.0400
.133						-.0440
.168					.0510	
.198				.7040		
.225			.8650			
.230						-.0090
.241		.8610				
.251	.7830					
.265					.0560	.0000
.291					.0000	
.336				-.0770		
.344			-.0030			
.393			.0000	.0000		
.397						
.418	1.0950	.8430				
.434						
.443		.0000				
.482			.0000			
.502	.0000					

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

(NUFA07)   (18 DEC 73)

BETA =	.000	POWER =	1.000
OPR =	28.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.001

MACH (1) = 1.199   ALPHA (1) = -8.108

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482						
-.449						
-.434	-.0320					
-.418		.5630				
-.397				.0000		
-.389			.2780			
-.344				-.0840	-.0000	
-.336					-.0740	.0000
-.291						
-.266						
-.251	.0760	.6730				
-.241						
-.230			.7130			-.0040
-.225				.2850	-.0760	
-.198						
-.168						
-.133	.4970	.6940	.6680	.8840	.0290	-.0090
.000						-.0430
-.133				.7870	.0370	-.0100
-.168			.8340			
-.198						-.0090
-.225	.6280	.7000				
-.241						
-.251						
-.266				.0090	.0090	.0000
-.291				.0000	.0000	
-.336			-.1290	-.0880		
-.344						
-.389	.9890	.2850		.0000		
-.397						
-.418						
-.434						
-.449	.0000	.0000	.0000			
-.482						
-.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL TI4-053 (IA36)

CAL TI4-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE   (NUFA07)

MACH (1) = 1.198   ALPHA (2) = -4.075

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

Y/DE	X/DE .0580	.2320	.4060	.5800	.7540	.9280
-.502						
-.482	.0000					
-.449	-.0910					
-.434		.0000				
-.418		.4450				
-.397			.0000			
-.389			.2010			
-.344				.0000		
-.336				-.0960		
-.291					.0000	
					-.0410	
-.266						.0000
-.251	.0530					
-.241		.5700				
-.230						.0010
-.225			.5890			
-.198				.1040		
-.168					-.0400	
-.133					.0200	.0200
					.0200	.0230
						-.0270
.000	.3970					
.133		.6020	.5710	.7520		
.168					.0530	
.198			.7740	.7130		
.225						
.230						-.0070
.241		.6740				
.251	.5580					
.266						.0000
.291					-.0220	
					.0000	
.336			-.0630			
.344				-.0590		
.389				.0000		
.397			.0000			
.418						
.434	.8460					
.449		.1560				
.482	.0000	.0000				
.502		.0000				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (NUFA07)

MACH (1) = 1.197   ALPHA (3) = -.023

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000				
-.449			.0000			
-.434	-.1020					
-.418		.3210				
-.397				.0000		
-.389						
-.344			-.1420			
-.336				-.0940		
-.291					.0000	
-.266					-.0420	.0000
-.251	.0090	.4550				
-.241			.5000			
-.230				.0410		
-.225					-.0210	.0190
-.198						
-.168						
-.133						
.000	.3170	.5040	.4880	.6720	.0100	-.0200
.133						-.0200
.168					.0360	-.0170
.198						
.225				.6400		
.230			.7130			-.0210
.241					-.0210	
.251	.5210	.6280				
.266						
.291						
.336					-.0100	.0000
.344					.0000	
.389			-.0530	-.0390		
.397				.0000		
.418	.6190	.0720				
.434						
.449			.0000			
.482		.0000				
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + Ti + S1 UPPER MPS NOZZLE   (NUFA07)

MACH (1) = 1.196   ALPHA (4) = 4.017

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000				
-.449			.0000			
-.434	-.1260					
-.418		.0000				
-.397			.0000			
-.389			.1190			
-.344				-.0570		
-.336				.0000		
-.291					.0000	
-.266					.0000	
-.251	-.0190					.0000
-.241		.5140				
-.230			.5430			-.0030
-.225				.0170		
-.198					-.0270	
-.168						.0000
-.133	.0000	.5170	.4570	.4580	-.0120	-.0100
.000					.0260	.0000
.133				.5010		
.168			.5090			
.198						.0280
.225		.5040				
.230	.4330					
.241						.0000
.251				-.0510		
.266					.0000	
.291					.0000	
.336			.0000			
.344				.0000		
.389		.0000				
.397	.4460					
.410						
.434		.0000				
.449			.0000			
.482	.0000					
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE   (NJFA07)

MACH (1) =   1.200   ALPHA (5) =   6.028

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000				
-.449	-.1130					
-.434		.0000	.0000			
-.418						
-.397				.0300		
-.389			.1350	-.0580		
-.344					.0000	
-.336					.0000	
-.291						.0000
-.266						
-.251	-.0320	.6040	.6060	.0310		.0020
-.241						
-.230						
-.225					-.0400	
-.198					-.0110	.0000
-.168						-.0030
-.133				.3990	.0380	.0000
.000	.0000	.6260	.5150	.3440		
.133						
.168			.3640			
.198						
.225		.3900				.0320
.230						
.241						
.251	.4280					
.266						.0000
.291				-.0240		
.336				.0000	.0000	
.344					.0000	
.389						
.397						
.418	.3370	.0000	.0000			
.434						
.449		.0000	.0000			
.482	.0000					
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)   PAGE 217

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE

(NUFA08)   (18 DEC 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	0.90 SCALE			

PARAMETRIC DATA

ALPHA	=	.000	POWER	=	1.000
OPR	=	28.310	SRMPR	=	2.020
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	-9.000

MACH (1) = .194   BETA (1) = -6.074

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0570	.6380	.0000			
-.434						
-.418			.3730	.0000		
-.397						
-.389				-.0230	.0000	
-.344					-.0340	
-.336						.0000
-.291						
-.266	.2500	.0000				
-.251						.0200
-.241			.4180			
-.230				.2190		
-.225					.0300	
-.198						-.0220
-.168	.1450	.0000	.3590	.0090	-.0230	-.0090
-.133						-.0170
-.000				.1900	.0270	
.133			.5010			-.0080
.168						
.198	.3520	.5130				
.225						
.230						
.241				.0360	.0130	.0000
.251				.0000	.0000	
.266						
.291						
.336	.0550	-.0450	-.0130			
.344						
.399						
.397	.0000	.0000	.0000			
.418						
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (NUFA08)

MACH (1) = 1.194   BETA (2) = -3.044

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/C	.0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000	.0000	.0000			
-.432						
-.449	-.0120	.0000	.0000			
-.434						
-.418			.3620	.0000		
-.397				-.0040		
-.389					.0000	
-.344					.0000	.0000
-.336						
-.291						
-.266	.1780	.3910	.5360	.1740	-.0380	.0100
-.251						
-.241						
-.230						
-.225						
-.198	.0000	.4140	.4810	.1540	-.0010	.0000
-.168					.0040	
-.133						.0000
-.C00			.7400	.4540	.0320	
-.133						
-.168						
-.198						.0050
-.225	.4490	.5370				
-.230						
-.241						
-.251						
-.266				.0000	.0000	.0000
-.291				.0000	.0000	
-.336						
-.344			-.0250			
-.376						
-.389			.0000	.0000		
-.397						
-.418	.1700	.0000				
-.434						
-.449	.0000	.0000				
-.482						
-.502						

MACH (1) = 1.199　BETA (3) = .000

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE　　　　(NUFA0B)

SECTION / UPPER MPS NOZZLE　　　　DEPENDENT VARIABLE DELCP

X/CE	.0580	.2320	.4060	.5800	.7540	.9280
Y/CE						
-.502						
-.482	.0000	.0000	.0000			
-.449						
-.434	-.1060	.3170	.1320	.0000		
-.418						
-.357						
-.369				-.1140		
-.344						
-.336					.0000	
-.291					-.0450	
-.266						.0000
-.251	.0120	.4690	.5200	.0280		.0220
-.241						
-.230						
-.225						
-.198						
-.168					-.0440	
-.133						
.000	.2910	.5000	.4930	.5480	.0070	.0120
.133					.0190	-.0190
.168					.0540	-.0070
.198						
.225			.6660	.6550		
.230						
.241						-.0190
.251	.5000	.6380				
.266						
.29:					.0070	.0000
.336		-.0680		-.0230	.0000	
.344						
.389						
.397				.0000		
.418						
.434	.6130	-.0470				
.449						
.482	.0000	.0000	.0000			
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-C53 (1A35)

CAL T14-C53 1A36 C2 + T1 + S1 UPPER MPS NOZZLE   (NUFACB)

MACH (1) = 1.195   BETA (4) = 3.049

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

Y/DE	X/DE = .0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000					
-.482						
-.449		.0000				
-.434	-.1460					
-.418		.0870				
-.397						
-.393			.0000			
-.344			-.1400			
-.336				.0060		
-.291					.0000	
-.266					-.0140	
-.251	-.0590					.0000
-.241						
-.230		.6090				
-.225			.5890			
-.198				-.1360		
-.168					.0120	
-.133						.0320
-.000	.4180	.6180	.5790	.6950	.1170	.0040
.133						-.0790
.168						-.0350
.198					.0110	
.225			.6650			
.230		.7200				
.241				.6310		
.251	.6490					
.266						-.0100
.291				-.0820	-.0020	
.336					.0000	
.344			.0000			
.389		.1940				
.397	.8430					
.418			-.0410			
.434						.0000
.449		.0000				
.482	.0000					
.502			.0000			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (NUFA08)

MACH (1) = 1.197   BETA (5) = 6.79

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000		.0000			
-.449						
-.434	-.2060	.0000	-.0950			
-.418						
-.397			-.1760	.0000		
-.309						
-.344				-.0420		
-.336					.0000	
-.291					.0070	
-.266						.0000
-.251	-.0990					
-.241		.7290				
-.230						
-.225			.6610			
-.198				-.2190		.0060
-.168					-.0540	
-.133						
.000	.5230	.7280	.6910	.6360	.5670	-.0010
.133						-.1070
.168					.0170	-.0280
.198				.6830		
.225						
.230						
.241		.8970				
.251						-.0060
.266						
.291					.0080	
.336					.0000	
.344			-.0420			
.399				-.1000		
.397						
.418						
.434	1.1050	.4900	.0000	.0000		.0000
.449						
.482	.0000	.0000				
.502	.0000					

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0150 SCALE		

(NUFBO1) 18 DEC 73

PARAMETRIC DATA

BETA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = .901   ALPHA (1) = -8.088

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0200	.0090				
-.434						
-.418						
-.397			-.0220	.0000		
-.389				-.0140		
-.344					.0000	
-.336					.0120	.0000
-.291						
-.266	-.0010	-.0200				
-.251						
-.241			.0080	-.0180		-.0090
-.230						
-.225					-.0220	-.0300
-.198	-.0090	.0050	-.0040	.0040	-.0020	-.0070
-.168						-.0260
-.133			.0020	.0110	.0170	
.000						.0050
.133						
.163						
.198	-.0240	.0070				
.225					-.0120	.0000
.230				.0260	.0000	
.241			.0390			
.251						
.266				.0000		
.291	-.0070	-.0080	.0000			
.336						
.344	.0000	.0000				
.389						
.397						
.418						
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A35 02 + T1 + S: LOWER LH MPS NOZ.   (NUFB01)

MACH (1) = .900   ALPHA (2) = -4.049

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/CE	.0580	.2320	.4060	.5800	.7540	.9280
Y/CE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0060	.0170				
-.434						
-.418			.0000			
-.397						
-.389	-.0240	-.0090				
-.344				.0000		
-.276				.0090	.0000	
-.291						
-.266						
-.251	-.0070	.0000			-.0140	
-.241			.0140	-.0220		
-.230						
-.225				-.0280	.0240	
-.198	-.0040	-.0030	.0000	.0020	-.0030	-.0040
-.168					.0160	-.0230
-.133			.0010	.0200		
-.000						
-.133						.0070
-.168	-.0100	-.0040				
-.198						
-.225				.0000	.0000	
-.230						
-.241				.0000		
-.251			.0170			
-.266						
-.291			.0290	.0000		
-.336						
-.344	-.0060	-.0100				
-.389			.0000			
-.397	.0000	.0000				
-.418						
-.434						
-.449						
-.482						
-.502						

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 Q2 + T1 + S1 LOWER LH MPS \CZ.   (NUFB01)

MACH (1) = .900   ALPHA (3) = .013

SECTION (1)LOWER LH MPS \CZ.   DEPENDENT VARIABLE DELCP

X/CE	.0580	.2320	.4060	.5900	.7540	.9280
Y/CE						
-.502	.0000	.0000	.0600			
-.482	.0120	.0190		.0000		
-.449			-.0300	-.0150	.0000	
-.434					.0170	
-.418						.0000
-.397	.0150	-.0080				
-.363			.0010	-.0190	-.0270	-.0070
-.344	-.0080	.0010	-.0040	-.0050	.0010	.0360
-.176						.0030
-.291			.0250	.0230		-.0270
-.266			-.0060			
-.241	-.0140	.0210				.0100
-.230				-.0100		
-.225				.0000		.0000
-.158			.0140			
-.168	.0000	.0300	.0000			
-.133		-.0110				
.000	.0000	.0000	.0000			
.502	.0000					

MACH (1) = .899   ALPHA (4) = 4.005

CAL T14-053 !A36 02 + T1 + S1 LOWER LH MPS NOZ.

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

Y/CC	X/CC .0580	.2320	.4060	.5800	.7540	.9280
.502	.0000	.0000				
.482			.0000			
.449						
.418	.0150	.0190				
.397			-.0400	.0000		
.363						
.344				-.0220		
.335					.0000	
.291					.0140	
.266						.0000
.251	.0050	-.0070				
.241			.0070	-.0300		-.0010
.230						
.225					-.0240	
.198						
.168						.0340
.133	-.0120	.0050	-.0020	-.0040	-.0130	.0050
.000						-.0310
.133				.0220		
.168			.0030	.0340		
.198						.0040
.225						
.230	-.0240	-.0020				
.241				-.0010		
.251				.0000		
.265			.0230			.0000
.291						
.336			.0410			
.344	-.0230	-.0100				
.369			.0000			
.397						
.418	.0000	.0000				

DATE 05 NOV 75   TABULATED DATA FOR CAL (14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB01)

MACH (1) = .899   ALPHA (5) = 6.005

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
.502	.0000					
.482		.0000	.0000			
.449	.0160	.0280				
.434						
.418			-.0350	.0000		
.397						
.389				-.0010		
.344					.0000	
.336					.0330	
.291						.0000
.256						
.251	-.0060	-.0220				
.241			.0260			-.0200
.230					-.	
.225				-.0170		
.198					-.0260	.0500
.165						
.133	-.0070	.0000	-.0040	.0000	.0060	.0030
.000					.0210	-.0500
.168				.0150		
.198			-.0240			
.225		.0210				.0300
.230	-.0020					
.241					-.0180	.0000
.251					.0000	
.266				.0070		
.291			.0460			
.336				.0000		
.344						
.389	-.0100	-.0120				
.397						
.418	.0000	.0000				
.434	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 227

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB02)   (18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	159.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = .901   BETA (1) = -6.079   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482						
-.449	.0210	.0330				
-.434						
-.418						
-.397			.0000			
-.389						
-.344			-.0320			
-.336				-.0100	.0000	
-.291					.0050	
-.266						.0000
-.251	.0090	-.0040				
-.241						
-.230						-.0090
-.225			.0160			
-.198				-.0330	-.0120	
-.168						
-.133	-.0080					
.000		.0000	.0020	.0120	-.0120	.0180
.133						-.0050
.168					.0220	-.0210
.198			-.0110	.0310		
.225						
.230						.0210
.241		.0060				
.251	-.0060					
.266						.0000
.291					.0020	
.336				.0070	.0000	
.344						
.389			.0300	.0000		
.397						
.418		-.0140				
.434	-.0320					
.449						
.482		.0000				
.502	.0000					

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB02)

MACH (1) = .900   BETA (2) = -3.049

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000					
-.449		.0000				
-.434	.0180					
-.418		.0090				
-.397			.0000			
-.389				.0000		
-.344			-.0300	-.0040		
-.336					.0000	
-.291					.0170	
-.266						.0000
-.251	.0170					
-.241		-.0110				
-.230						-.0150
-.225			-.0030	-.0110		
-.198					-.0190	
-.168						
-.133						
-.000	-.0060	.0130	.0100	.0070	.0030	.0240
.133						.0080
.168						-.0260
.198				.0230	.0180	
.225			.0070			
.230		.0210				
.241						.0120
.251	.0040					
.266					-.0030	
.291					.0000	.0000
.336				.0270		
.344			.0380	.0000		
.389						
.397						
.418		.0020				
.434	-.0010					
.443		.0000				
.482	.0000					
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(NUFB02)

MACH (1) = .901   BETA (3) = .000

SECTION (1) LOWER LH MPS NOZ.   CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000				
-.449			.0000			
-.434	.0240					
-.418		.0170				
-.397			.0000			
-.389			-.0350			
-.344				-.0070		
-.336					.0000	
-.291					.0100	
-.266						.0000
-.251	.0140					
-.241		-.0030				
-.230			.0020			
-.225				-.0250		
-.198					-.0140	
-.168						-.0060
-.133	-.0060					
.000		.0040				
.133			.0100	-.0040	-.0020	.0280
.168						.0010
.198					.0170	-.0350
.225				.0240		
.230		.0000	.0070			
.241	-.0130					-.0010
.251						
.266					.0000	
.291					-.0020	.0000
.336				.0230	.0000	
.344			.0350			
.389				.0000		
.397						
.418	-.0110	-.0020				
.434			.0000			
.449						
.482	.0000	.0000				
.502						

DATE 25 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB02)

MACH (1) = .900   BETA (4) = 3.051

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502		.0000				
-.482						
-.449			.0000			
-.474	.0020	.0030				
-.418						
-.397			.0000			
-.389			-.0310			
-.344				-.0140		
-.336					.0000	
-.291					.0120	
-.266						.0000
-.251	.0010					
-.241		-.0230				
-.230						-.0110
-.225			.0010			
-.192				-.0220		
-.168					-.0170	
-.133						.0270
.000	-.0020	.0090	-.0030	-.0130	.0010	.0020
.133					.0140	-.0290
.168				.0150		
.198			-.0110			
.225						.0080
.230		.0060				
.241	-.0100					
.251					-.0130	
.265					.0000	.0000
.291				.0080		
.336		.0300				
.344				.0000		
.383						
.397			.0000			
.418	-.0120					
.434	-.0210					
.449						
.482	.0000					
.502	.0000					

DATE 25 NOV 75   TABULATED DATA FOR CAL 114-053 (1A36)   PAGE 231

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB02)

MACH (1) = .901   BETA (5) = 6.089

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
V/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0010					
-.434		.0000	.0000			
-.418						
-.397			-.0280	.0000		
-.09				.0040	.0000	
-.344					.0020	
-.375						.0000
-.291						
-.265						
-.251	-.0130	-.0190				-.0170
-.241			.0080	-.0400	-.0140	
-.230						.0210
-.225						.0150
-.198						-.0240
-.168	-.0070	.0080	-.0120	-.0180	-.0140	
-.133					-.0030	
.000			-.0120	.0150		.0120
.133						
.168						
.199						
.225	-.0040	-.0010				.0000
.220				-.0060		
.251			.0160	.0040	.0000	
.666						
.291						
.336						
.344	-.0290	-.0020	.0000	.0000		
.389						
.397						
.418	.0000	.0000				
.434						
.449						
.482						
.502						

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

(NUFB03) (18 DEC 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

BETA	=	.000		POWER	=	1.000
OPR	=	36.200		SRMPR	=	2.330
GP1	=	11.000		GY1	=	-9.000
GP2	=	.000		CY2	=	-9.000
GP3	=	.000		GY3	=	-9.000

MACH (1) = .897   ALPHA (1) = -8.088

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000	.0000	.0000	
-.482						
-.449	.0340	.0220				
-.434						
-.418						
-.397			-.0520	.0000		
-.389				-.0310	.0530	
-.344					.0000	
-.336						
-.291						.0000
-.266	.0120	-.0340				
-.251						
-.241						
-.230			.0000	-.0110	-.0070	.0150
-.225						
-.198						
-.168						-.0580
-.133	-.0290	.0050	.0100	.0000	-.0020	-.0100
.000						-.0710
.133						
.168			.0180	.0130	-.0020	
.198						
.225						-.0170
.230	-.0570	.0610				
.241						
.251						.0000
.266				-.0580		
.291			.0760	.0250	.0000	
.336				.0000		
.344						
.389	-.0070	.0010	.0000			
.397						
.418						
.434	.0000	.0000				
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB03)

MACH (1) =   .899   ALPHA (2) = -4.038

SECTION (1)LOWER LH MPS NOZ   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9220
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0380	.0070		.0000		
-.434			.0040			
-.418				-.0180		
-.397					.0000	
-.389					-.0050	.0000
-.344						
-.336	.0270	.0300				
-.291						.0250
-.266			-.0050	-.0210		
-.251					.0030	.0110
-.241			.0100	.0040	.0000	-.0030
-.230	-.0510	.0010				-.0110
-.225				.0190	.0080	
-.198			.0220			-.0100
-.168						
-.133						.0000
.000	-.0310	-.0200			.0130	
.033					.0000	
.168			.0070	.0110		
.198				.0000		
.225	-.0220	-.0030				
.230						
.142	.0000	.0000	.0000			

DATE 05 NOV 75　　TABULATED DATA FOR CAL T14-053 ((A36))

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.　　(NUFB03)

MACH (1) = .901　　ALPHA (3) = .00:

SECTION (1)LOWER LH MPS NOZ.　　DEPENDENT VARIABLE DELCP

Y/DE	X/DE .0580	.2320	.4060	.5800	.7540	.9280
-.502						
-.482	.0000	.0000				
-.449						
-.434	.0180	.0120				
-.418						
-.397			-.0010	.0000		
-.389						
-.344				-.0220		
-.336					.0000	
-.291					.0030	
-.266						.0000
-.251	.0170	.0210				
-.241						
-.230						.0130
-.225			-.0060	-.0110		
-.198					-.0050	
-.168						
-.133						
.000	-.0140	.0020	-.0020	.0010	-.0080	-.0030
.133						-.0090
.168						-.0080
.198					.0010	
.225			.0150	.0060		
.230						
.241						-.0110
.251	-.0370	-.0280				
.266						
.291						.0000
.336					.0130	
.344				.0210	.0000	
.389			-.0130	.0000		
.397			.0000			
.418						
.434	-.0080	-.0140				
.449						
.482	.0000	.0000				
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 C2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB03)

MACH (1) =   .902   ALPHA (4) =   4.026

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/CE	.0580	.2320	.4060	.5800	.7540	.9280
.502	.0000					
.482		.0000				
.449	.0280	.0130				
.434			.0000			
.418			-.0060	.0000		
.397				-.0320	.0000	
.382					-.0150	.0000
.344						
.336						
.201	.0210	.0290				
.266			-.0070			
.251				-.0260	-.0190	.0090
.241					-.0050	.0070
.230	-.0130	.0020	-.0040	-.0070	-.0040	-.0080
.225						
.193						
.169					-.0020	
.173			.0050	.0130		
.000						-.0100
.133	-.0320	-.0300				
.168					.0280	
.138					.0000	.0000
.225				.0180		
.230			-.0100	.0000		
.241	-.0300	-.0160				
.251						
.266	.0000	.0000	.0000			
.291						
.336						
.344						
.389						
.397						
.418						
.434						
.449						
.482						
.502						

TABULATED DATA FOR CAL T14-053 (IA36)

CAL. T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB03)

MACH (1) = .898   ALPHA (5) = 6.021

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	-.0090					
-.434		.0110		.0000		
-.418			-.0430			
-.397				-.0210		
-.389					.0000	
-.344					.0450	
-.336						.0000
-.291	.0110					
-.251		-.0340				
-.241			-.0050			.0090
-.230				.0010		
-.225					-.0200	
-.198	-.0100	.0080	-.0060	-.0100	-.0160	.0350
-.168					-.0010	-.0070
-.133						-.0370
.000				-.0160		
.133			.0020			-.0090
.168		-.0290				
.198	-.0260				-.0410	.0000
.225				.0160	.0000	
.230			.0240			
.241				.0000		
.251	.0100	-.0060				
.266		.0000	.0000			
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A35)   PAGE 237

CAL T14-053 1A36 C2 + T1 + S1 LOWER LH MPS NOZ.   (NUFBC4)   (18 DEC 73)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES	ALPHA = .000	POWER = 1.000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES	CPR = 35.200	SPMPR = 2.330
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES	GP1 = 11.000	GY1 = -9.000
SCALE = .0190 SCALE		GP2 = .000	GY2 = -9.000
		GP3 = .000	GY3 = -9.000

MACH (1) = .893   BETA (1) = -6.078

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0090	.0340				
-.434						
-.418			.0020	.0000		
-.397						
-.389				-.0590		
-.344					.0000	
-.336					.0110	.0000
-.291						
-.266						
-.251	-.0170	-.0070				
-.241			-.0050	-.0220		.0070
-.230						
-.225						
-.198				.0000	.0000	.0220
-.168	-.1290	-.0220	-.0090	.0070	.0010	-.0010
-.133					.0330	-.0270
.000			.0150	.0420		
.133						-.0100
.168	-.0730	-.0170				
.198						
.225				.0370	.0070	.0000
.230				.0000	.0000	
.241			.0340			
.251		.0080				
.266	-.0030					
.291	.0000	.0000	.0000			
.336						
.344						
.389						
.397						
.418						
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB04)

MACH (1) = .900   BETA (2) = -3.049

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0150					
-.434		.0200		.0200		
-.397						
-.389			-.0030	.0000		
-.344				-.0110		
-.336					.0000	
-.291					.0140	
-.266						.0000
-.251	-.0020	-.5070				
-.241						.0060
-.230			-.0070			
-.225				-.0110		
-.198					-.0030	.0330
-.168						-.0010
-.133						-.0280
-.000	-.0840	-.0060	.0060	.0010	-.0010	
-.168					.0020	
-.198			.0250	.0290		
-.230						-.0170
-.241	-.0370	-.0030				
-.251					-.0030	
-.266					.0000	.0000
-.291				.0170		
-.336			.0340			
-.344						
-.389				.0000		
-.397			.0000			
-.418	-.0090	.0200				
-.434						
-.449						
-.502	.0000	.0000				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB04)

MACH (1) = .899   BETA (3) = .000

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000				
-.449	.0320	.0170				
-.418			-.0150	.0000		
-.397						
-.380				-.0270		
-.344					.0000	
-.336					.0090	
-.291						.0000
-.266	.0100	.0000				
-.251						.0110
-.241			-.0030	-.0230		
-.230						
-.225					-.0150	.0330
-.198						-.0090
-.168						-.0290
-.133						
.000	-.0270	.0070	.0030	-.0020	-.0100	
.133					-.0010	
.168				.0080		
.198			.0130			
.225						-.0220
.230						
.241	-.0340	.0060				
.251						.0000
.266					-.0040	
.291					.0000	
.336				.0180		
.344			.0130			
.389				.0000		
.397						
.418	-.0200	-.0130				
.434						
.449	.0000	.0000	.0000			
.482						
.502						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (:A36)

CAL T14-053 IA36 O2 + 71 + 51 LOWER LH MPS NOZ.   (NUFB04)

MACH (1) = .898   BETA (4) = 3.051

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000				
-.449	.0540	-.0020				
-.434						
-.418			.0000			
-.397						
-.389			-.0310	.0000		
-.344				-.0150		
-.336					.0000	
-.291					-.0130	
-.266						.0000
-.251	.0270	.0090				
-.241						
-.230						.0180
-.225			-.0240	-.0390		
-.198					.0060	
-.168						
-.133	-.0120	.0030	-.0080	-.0090	-.0010	.0240
.000						.0020
.133					-.0030	-.0330
.168						
.198			.0190	.0320		
.225						
.230						-.0230
.241	-.0350	-.0380				
.251						
.266						.0000
.291					.0140	
.336			.0330	.0170	.0000	
.344						
.389				.0000		
.397		.0030				
.418	-.0370					
.434						
.449			.0000			
.482		.0000				
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.   (NUFB04)

MACH (:) = .899   BETA (5) = 6.088

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/CE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0340	-.0030	-.0180	-.0220	-.0000	.0000
-.434					-.0130	
-.418						
-.397						
-.389						
-.344						
-.336						
-.291	.0140	.0200	-.0180	-.0290	.0050	.0180
-.266						
-.251						
-.241						
-.230						
-.225						
-.198	-.0090	.0070	.0030	-.0040	.0020	.0170
-.168						-.0080
-.133					-.0130	-.0210
.000			.0220	.0120		
.133						
.168	-.0580	-.0210			-.0280	
.198						
.225			.0120	.0080	.0110	.0000
.230					.0000	
.241						
.251						
.266	-.0230	.0130	.0000	.0000		
.291						
.336	.0000	.0000				
.344						
.389						
.397						
.418						
.434						
.449						
.482						
.502						

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

(NUFB05)   (18 DEC 73)

REFERENCE DATA

SREF = 49.4000 SQ.FT.   XMRP = 158.0000 INCHES
LREF = 90.7000 INCHES   YMRP =   .0000 INCHES
BPEF = 90.7000 INCHES   ZMRP =   .0000 INCHES
SCALE =   .0190 SCALE

PARAMETRIC DATA

BETA =   .000   POWER =   .000
GP1   = 11.000   GY1   = -9.000
GP2   =   .000   GY2   = -9.000
GP3   =   .000   GY3   =   .000

MACH (1) = 1.203   ALPHA (1) = -8.101

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449						
-.434	-.0080	.0180				
-.418						
-.397						
-.389			-.0300	.0000	.0000	
-.344				-.0180		
-.336					.0000	
-.291					.0170	
-.266						.0000
-.251	.0130	-.0230				
-.241						
-.230						-.0050
-.225			.0030			
-.198				-.0040		
-.168					-.0240	
-.133						
-.000	-.0230	-.0110	-.0070	-.0020	-.0070	-.0070
.133						-.0080
.168						-.0110
.198				-.0060	.0190	
.225			-.0160			
.230						.0220
.241		.0110				
.251	.0000					
.266						.0000
.291					-.0130	
.336				.0090	.0000	
.344			-.0030			
.389		-.0250				
.397				.0000		
.418						
.434	.0150					
.449						
.482		.0000	.0000			
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(NUFB05)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) =   1.202   ALPHA (2) =   -4.038

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000	.0000		
-.482						
-.449	-.0110					
-.434		.0180				
-.418			.0000			
-.337			-.0400	.0000		
-.399				-.0240		
-.344					.0000	
-.335					.0290	
-.291						.0000
-.266						
-.251	.0130	-.0320				
-.241			-.0010	-.0090		
-.230						-.0090
-.225					-.0310	
-.198						
-.168						
-.133	-.0120	.0000	-.0100	-.0060	-.0110	-.0150
.000						-.0130
.133					.0030	-.9280
.168						
.198			-.0150	-.0160		
.225						
.230	-.0030	.0120				.0150
.241					-.0270	
.251					.0000	.0000
.266						
.291				.0050		
.336			.0100	.0000		
.344	.0130	-.0090				
.389						
.397						
.418	.0000	.0000	.0000			
.434						
.449						
.462						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB05)

MACH (1) = 1.203   ALPHA (3) = -.011

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

Y/OE	.0580	.2320	.4060	.5800	.7540	.9280
-.502						
-.482	.0000	.0000				
-.449			.0000			
-.434	-.0050					
-.418		.0150		.0000		
-.397						
-.389			-.0440			
-.344				-.0230		
-.336					.0000	
-.291					.0310	
-.266						.0000
-.251	.0070					
-.241		-.0360				
-.230			.0040			
-.225				-.0080		-.0090
-.198						
-.168					-.0310	
-.133						.0050
.000	-.0060	-.0020	-.0060	-.0140	-.0140	-.0140
.133						-.0300
.168				-.0140	.0040	
.198						
.225			-.0250			
.230		.0170				
.241						.0160
.251	-.0020					
.266					-.0310	
.291					.0000	
.336				-.0040	.0000	
.344						
.389			.0110			
.397				.0000		
.418	.0090	-.0210				
.434						
.449			.000			
.482	.0000	.0000				
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 (IA35 O2 + T1 + S1 LOWER LH MPS NOZ.

(NUFB05)

MACH (1) = 1.203   ALPHA (4) = 4.003

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000				
-.449			.0000			
-.434	-.0090					
-.418		.0280				
-.397						
-.389				.0000		
-.344			-.0320			
-.336				-.0260		
-.291					.0000	
-.266					.0290	.0000
-.251	.0100					
-.241		-.0430				
-.230						-.0060
-.225			-.0050	.0020		
-.198					-.0340	
-.168						
-.133						
.030	-.0320	-.0110	-.0120	-.0130	-.0170	-.0040
.133						-.0100
.168					.0060	-.0210
.198			-.0260	-.0260		
.225						
.230		.0130				
.241	-.0030					.0100
.251						
.266					-.0280	
.291				-.0060	.0000	.0000
.336						
.344						
.389			.0010	.0000		
.397						
.418						
.434	.0140	-.0100				
.449			.0000			
.482		.0000				
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NJFB05)

MACH (1) = 1.202   ALPHA (5) = 6.018

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000				
-.449	-.0130		.0000			
-.434						
-.418		.0200				
-.397				.0000		
-.389			-.0430			
-.344				-.0360		
-.336					.0000	
-.291					.0320	.0000
-.266	.0150					
-.251						-.0020
-.241		-.0540				
-.230			-.0090	-.0090		
-.225					-.0360	
-.198						
-.168			-.0160	-.0160	-.0200	.0100
-.133						-.0120
.000	-.0210	-.0180			-.0010	-.0310
.133				-.0250		
.168			-.0180			
.198						.0030
.225						
.230		.0170				
.241						
.251	-.0060				-.0380	
.266					.0000	
.291				.0050		.0000
.336						
.344			.0200			
.389				.0000		
.397						
.418	.0150					
.434		-.0190				
.449			.0000			
.482	.0000					
.502		.0000				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 247

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

(NUFB061   (18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF =	90.7000 INCHES	YMRP = .0000 INCHES
BREF =	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE =	.0190 SCALE	

PARAMETRIC DATA

ALPHA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = 1.202   BETA (1) = -6.079

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000	.0000			
-.449						
-.434						
-.418	-.0020	.0190				
-.397						
-.389			-.0300	.0000		
-.344				-.0190		
-.336					.0000	
-.291					.0190	
-.265						.0000
-.251	.0020	-.0290				
-.241			.0000			
-.230						-.0080
-.225				-.0080		
-.198	.0000				-.0260	
-.168						.0110
-.133					-.0050	-.0070
.000	.0050	-.0090	-.0070	-.0080		-.0140
.133					.0090	
.168				-.0030		
.198						
.225						
.230			-.0180		.0140	
.241		.0130				
.251	-.0030					
.266				-.0180		.0000
.291				.0000		
.336						
.344			-.0030			
.369			.0050			
.397			.0000			
.418						
.434	-.0040	-.0010				
.449						
.482			.0000			
.502	.0000	.0000				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB06)

MACH (1) = 1.202   BETA (2) = -3.051   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000					
-.482		.0000	.0000			
-.449	.0050	.0130				
-.434						
-.418				.0000		
-.397			-.0350	-.0150		
-.389						
-.344					.0000	
-.336					.0190	
-.291						.0000
-.266	.0020	-.0260				
-.251						-.0100
-.241			.0010	-.0070	-.0190	
-.230						.0120
-.225					-.0140	.0120
-.198	-.0080	-.0110	-.0070	-.0070		-.0210
-.168					-.0040	
-.133			-.0250	-.0080		
-.000						.0170
.168	.0030	.0140				
.198					-.0220	
.225					.0000	.0000
.230				-.0140		
.241			.0070	.0000		
.251						
.266	.0050	-.0060				
.291	.0000	.0000	.0000			
.336						
.344						
.389						
.357						
.418						
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-C53 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB06)

MACH (1) =   1.202   BETA (3) =   .000

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000				
-.449			.0000			
-.434						
-.418	.0000	.0150				
-.397				.0000		
-.389			-.0370			
-.344				-.0190		
-.336					.0000	
-.291					.0000	.0000
-.266	.0110					
-.251						
-.241						-.0050
-.230	.0000	.0000	-.0030			
-.225				.0000		
-.198					-.0220	
-.168					-.0070	-.0180
-.133				-.0090		-.0130
-.000	.0090	-.0060	.0000			-.0210
.133				.0000	-.0040	
.168						
.198						
.225			-.0220			
.230				.0000		.0120
.241	.0030	.0000				
.251						
.266					.0000	.0000
.291					.0000	
.336			.0120	-.0100		
.344						
.389	.0000	-.0090		.0000		
.397						
.418	.0000	.0000	.0000			
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB06)

MACH (1) =   1.203   BETA (4) =   3.051

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0020					
-.482		.0000	.0000			
-.449						
-.434	-.0080	.0150				
-.412						
-.397			-.0320	.0000		
-.389				-.0170		
-.344					.0000	
-.336					.0330	
-.291						
-.266	.0080					.0000
-.251		-.0370				
-.241						-.0150
-.230			-.0010	-.0020	-.0340	
-.225						
-.198						.0120
-.168	-.0040	-.0190	-.0090	-.0140	-.0100	-.0150
-.133						-.0240
.000					.0000	
.133						
.168			-.0240	-.0170		
.198						.0160
.225						
.230		.0120				
.241	-.0060					.0000
.251				-.0060	-.0280	
.266					.0000	
.291			.0100	.0000		
.336						
.344	.0300	.0030				
.389						
.397	.0000	.0000	.0000			
.418						
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

(NUFB06)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) =   1.205   BETA (5) =   6.079

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

x/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000				
-.449			.0000			
-.434	-.0090					
-.418		.0200		.0000		
-.337			-.0260			
-.399				-.0210		
-.344					.0000	
-.335					.0210	
-.291						.0000
-.266	-.0130	-.0280				
-.251			-.0030			-.0130
-.241				-.0130		
-.230					-.0310	
-.225	.0060	-.0210	-.0150	-.0130	-.0130	.0150
-.98						-.0120
-.168						-.0200
-.133					.0050	
.000				-.0220		
-.133		.0060	-.0230			.0120
-.168	-.0150					
-.198				-.0020	-.0200	.0000
-.225			.0010	.0000	.0000	
-.230		-.0010				
-.241	.0270					
-.251	.0000	.0000	.0000			

DATE 05 NOV 73　　　　TABULATED DATA FOR CAL T14-053 (IA36)　　　　PAGE 252

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.　　　(NUFB07)　　(18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	
SCALE =	.0190 SCALE			

PARAMETRIC DATA

BETA =	.000	POWER =	1.000
OPR =	28.300	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) = 1.199　　ALPHA (1) = -8.108

SECTION (1)LOWER LH MPS NOZ.　　　DEPENDENT VARIABLE DELCP

X/DE:	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.434	-.0380	.0260				
-.412						
-.397			-.0150	.0000		
-.389				-.0010	.0290	
-.344					.0000	.0000
-.336						
-.291	-.0380	-.0290		.0130		-.0070
-.266			.0220			
-.251						
-.230						
-.225					-.0230	-.0530
-.198	-.0730	-.0290	-.0030	-.0060	-.0120	.0080
-.168						-.0070
-.133			-.0340	-.0220	.0020	
.000						.0800
-.133						
-.168	-.0570	-.0390				
-.198						.0000
-.225					-.0260	
-.230			-.0140	-.0070	.0000	
-.241						
-.251						
-.266						
-.291	-.0150	-.0290	.0000	.0000		
-.336						
-.344	.0000	.0000				
-.389						
-.397						
-.418						
-.434						
-.449						
-.482						
-.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(NUFB07)

MACH (1) = 1.198   ALPHA (2) = -4.075

CAL T14-053 1A36   + T1 + S1 LOWER LH HPS NOZ.

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

Y/DE	.0590	.2320	.4060	.5800	.7540	.9280
-.502	.0000	.0000	.0000			
-.482						
-.449	.0050	.0340		.0000		
-.434			-.0160			
-.418				.0030		
-.397					.0000	
-.389					.0430	.0000
-.344						
-.336						-.0080
-.291	-.0500	-.0160				
-.266			.0290	-.0020	-.0170	
-.251						
-.241						
-.230	-.0790	.0820	.0010	.0110	-.0070	-.0100
-.225						-.0110
-.198						-.0270
-.166			-.0230	-.0080	.0000	
-.133						-.0100
.000	-.0610	-.0220				
.133						.0000
.168				-.0400		
.198				.0000		
.225			-.0010	-.0270		
.230				.0000		
.241	-.0320	-.0330				
.251			.0000			
.266	.0000	.0000				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB07)

MACH (1) =   1.197   ALPHA (3) =   -.023

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000				
-.449	.0170		.0000			
-.434		.0350				
-.418						
-.397				.0000		
-.389			-.0070			
-.344				.0040		
-.336					.0000	
-.291					.0410	
-.266						.0000
-.251	-.0240					
-.241		-.0020				
-.230			.0200			
-.225						.0050
-.198				.0010		
-.168					.0030	
-.133	-.1110	-.0030	.0150	.0110	.0000	-.0080
-.000					.0000	-.0130
.133				-.0050		.0240
.168						
.198			-.0070			
.225				-.0020		
.230						-.0160
.241	-.0780	-.0310				
.251					-.0410	
.266					.0000	.0000
.291				-.0310		
.336			-.0100			
.344				.0000		
.389						
.397						
.418	-.0350	-.0310	.0000			
.434						
.449						
.482	.0000	.0000				
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB07)

MACH (1) = 1.196   ALPHA (4) = 4.017

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000				
-.449						
-.434	.0480	.0590				
-.418						
-.397			.0000			
-.389			.0280			
-.344				.0000	.0000	
-.336				.0000	.0000	
-.291						.0000
-.266						
-.251	-.0210	.0000				
-.241						
-.230			.0450	-.0080	-.0240	-.0330
-.225						
-.198						
-.168						
-.133	.0000	-.0110	-.0050	-.0100	-.0060	.0000
.000						-.0150
.133						.0000
.168					-.0180	
.198			-.0520	-.0070		
.225						.0030
.230						
.241	-.0800	.0000				
.251						
.266					.0000	.0000
.291				-.0460	.0000	
.336						
.344			.0000	.0000		
.389						
.397	-.0410	.0000				
.418						
.434			.0000			
.449						
.482	.0000	.0000				
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB07)

MACH (1) =   1.200   ALPHA (5) =   6.028

SECTION (1)LOWER (4 MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Y/DE

Y/DE	.0580	.2320	.4060	.5800	.7540	.9280
-.502						
-.482	.0000	.0000	.0000	.0000		
-.449						
-.434	.0100	.0660				
-.418			.0000	.0000	.0000	
-.397						
-.389				.0010	.0000	
-.344					.0000	.0000
-.336						
-.291						
-.266						
-.251	-.0100	.0000				-.0180
-.241			.0290	.0050	.0340	
-.230						
-.225						
-.198						
-.168						
-.133						
.000	.0000	-.0160	.0060	-.0100	.0130	.0000
.133					-.0200	
.168				.0030	.0010	.0000
.198			-.0480			
.225		.0000				.0060
.230						
.241	-.0890					
.251						
.266					.0000	.0000
.291			-.0300			
.336						
.344				.0000		
.389	.0040	-.0090	.0000			
.397						
.418						
.434						
.449						
.482	.0000	.0000				
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + T1 + S1 LOWER LH MPS NOZ.

(NUFB08)   (18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	POWER =	1.000
OPR =	28.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) = 1.194   BETA (1) = -6.074

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000				
-.449	-.0610		.0120			
-.434				.0000		
-.418			-.0140	-.0100		
-.397					.0000	
-.389					.0350	
-.344						.0000
-.336	-.0850	-.0630				.0230
-.291			-.0140	-.0070	-.0090	
-.266						.0170
-.251	-.1770	-.0910	-.0130	-.0040	.0060	.0040
-.241						-.0110
-.230			.0090	.0070	.0020	
-.225						-.0090
-.198	-.1180	-.0270		.0000		.0000
-.168				-.0170		
-.133			.0310	.0070	.0000	
.000	.0140	.0430				
.133	.0000	.0000	.0000			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB08)

MACH (1) = 1.194   BETA (2) = -3.044

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0070					
-.434		.0310		.0000		
-.418			.0000			
-.397				.0100		
-.389					.0000	
-.344					.0000	
-.336						.0000
-.291	-.0620					
-.266		.0000				.0120
-.251			.0090			
-.241				-.0110		
-.230					-.0130	
-.225						
-.198	.0000	-.0750	-.0110	-.0090	.0030	.0000
-.168						-.0020
-.133					.0010	.0000
.000			-.0180	.0020		
-.133						.0030
-.168	-.1250					
-.198				-.0310		.0000
-.225					.0000	
-.230					.0000	
-.241			.0000	.0000		
-.251						
-.266	-.0120	-.0030				
-.291			.0000			
-.336	.0000	.0000				
-.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFBC8)

MACH (1) = 1.199   BETA (3) = .000

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000	.0000			
-.449						
-.434	.0240	.0540	.0030	.0000		
-.418						
-.397				-.0060	.0000	
-.389					.0090	
-.344						.0000
-.336						
-.291						
-.266						
-.251	-.0090	.0150	.0210	-.0040		.0150
-.241						
-.230					-.0180	
-.225						.0040
-.198	-.0760	-.0140	.0070	.0050	.0010	.0030
-.168					.0150	-.0070
-.133			-.0160	.0050		
.000						-.0173
.133						
.168						
.198						
.225						
.230	-.0930	-.0370		-.0180		.0000
.241				.0000		
.251						
.266						
.291			-.0170			
.336						
.344						
.389						
.397	-.0420	-.0290				
.418						
.434						
.449	.0000	.0000	.0000			
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)   PAGE 260

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB08)

MACH (1) = 1.195   BETA (4) = 3.049

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000	.0000	.0000		
-.449						
-.434	.0740	.0180				
-.418						
-.397			-.0040	.0000		
-.389						
-.344				-.0340	.0000	
-.336					.0240	
-.291						.0000
-.266	.0340	.0120				
-.251						.0240
-.241			-.0070	-.0020	.0690	
-.230						
-.225						.0250
-.198						.0720
-.168	-.0260	-.0240	-.0010	-.0040	-.0090	-.0250
-.133				-.0050	-.0570	
.000			.0150			
.133						-.0310
.168						
.198	-.0050	-.0320			-.0200	
.225				-.0840	.0000	.0000
.230			.0110			
.241						
.251		.0250	.0000	.0000		
.266	-.0430					
.291	.0000	.0000				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (NUFB08)

MACH (1) =   1.197   BETA (5) =   6.079

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000	.0000			
-.449						
-.434	.0460	.0370				
-.418			.0200	.0000		
-.397						
-.389				.0100	.0000	
-.344					.0280	
-.336						.0000
-.291						
-.266	.0430	.0120				
-.251						.0120
-.241			.0060	.0200	.0080	
-.230						
-.225						
-.198	-.0230	-.0170	.0010	.0010	-.0110	-.0090
-.168						.0000
-.133					-.0190	-.0070
.000			-.0050	-.0180		
.133						-.0110
.168	-.1120	-.0330				
.198					-.0330	
.225				-.0270	.0000	.0000
.230			-.0120	.0000		
.241						
.251	-.0380	-.0060				
.266						
.291						
.336	.0000	.0000	.0000			
.344						
.389						
.397						
.418						
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

(NJFC01)   (18 DEC 73)

REFERENCE DATA

SREF =	49.4000	SQ.FT.
LREF =	90.7000	INCHES
BREF =	90.7000	INCHES
SCALE =	.0190	SCALE

XMRP =	158.0000	INCHES
YMRP =	.0000	INCHES
ZMRP =	.0000	INCHES

PARAMETRIC DATA

BETA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = .901   ALPHA (1) = -8.088

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000		.0000		
-.482						
-.449	.0150	.0070				
-.434			.0090			
-.418						
-.397				-.0250		
-.369					.0000	
-.344					-.0150	
-.336						.0000
-.291						
-.266	-.0490	.0010				
-.251			-.0050			.0090
-.241						
-.230				-.0270	-.0180	
-.225						
-.198			.0120	-.0250	.0200	.0130
-.168	-.0120	.0630				.0270
-.133						.0110
.000					.0000	.0000
.230				-.0290		
.266				.0080		
.291			.1530	.0000		
.336						
.344	.4440	.4680				
.389						
.397			.0700			
.418	.0000	.0000				
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (NUFC01)

MACH (1) = .900   ALPHA (2) = -4.049   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0120	.0230				
-.434			.0160	.0000		
-.418				-.0170		
-.397						
-.389					.0000	
-.344					-.0230	
-.336						.0000
-.291						
-.266	.0230	.0070				.0250
-.251			-.0070	-.0410		
-.241					-.0250	
-.230						
-.225						.0160
-.198	-.0100	.0490	-.0090	-.0040	.0210	.0250
-.168						.0130
-.133						.0000
.000					-.0110	
.230					.0000	
.266				.0300		
.291		.1660	.0000			
.336						
.344	.4760					
.399						
.397	.4240	.0000	.0000			
.418						
.434	.0000					
.449						
.482						
.502						

MACH (1) = .900   ALPHA (3) = .013   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0050	.0150				
-.434				.0000		
-.418						
-.397						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 264

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (NJFCC1)

MACH (1) = .900   ALPHA (3) = .013

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.389						
-.344			.0180			
-.336				-.0120		
-.291					-.0000	
-.266					-.0090	.0000
-.251	.0210					
-.241		.0120				
-.230						
-.225			-.0080			
-.198				-.0580	-.0130	.0150
-.168						
-.133	-.0180	.0640	.0010	-.0050	.0200	
-.000					-.0220	.0120
-.230						.0300
-.266						.0090
-.291					.0030	.0000
-.336			.1830			
-.344		.4520				
-.389			.0490			
-.397				.0000		
-.418						
-.434	.3470					
-.449						
-.482	.0000	.0000	.0000			
-.502						

MACH (1) = .890   ALPHA (4) = 4.005

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000				
-.449	.0250	.0250				
-.434			.0000			
-.418	.0250					
-.397			.0180	.0000		
-.389				-.0080		
-.344			.0180			
-.336					-.0000	
-.291						.0000
-.266					-.0190	
-.251	.0290					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (NUFCO1)

MACH (1) = .899   ALPHA (4) = 4.005   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
.241		.0200				.0240
.230			-.0060			
.225				-.0230		
.198					-.0420	
.160						.0130
.133						.0370
.000	-.0070	.0580	-.0070	-.0040	.0220	.0050
.230						.0000
.266						
.291					-.0120	
.335				.0490	.0000	
.344			.1780			
.389				.0000		
.397						
.418		.4380				
.434	.3350					
.449		.0000	.0000			
.482						
.502	.0000					

MACH (1) = .899   ALPHA (5) = 6.006   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000	.0000		
-.482						
-.449	.0120	.0240				
-.434			.0150			
-.418						
-.397				.0040		
-.389					.0000	
-.344					-.0050	
-.336						.0000
-.291						
-.266	.0080	-.0060				
-.241						.0240
-.230			-.0160	-.0220		
-.225					-.0090	
-.198						-.0080
-.168						
-.133						

CAL T14-053 !A36 Q2 + T1 + S1 LOWER RH MPS NOZ.　　　(NUFC01)

MACH (1) = .898　　ALPHA (5) = 6.006

SECTION (1)LOWER RH MPS NOZ.　　　DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
.000	.0080	.0790	-.0050	-.0110	.0270	.0400
.230						.0290
.266						.0000
.291					-.0350	
.336					.0000	
.344		.1590				
.397			.0350			
.418	.4470					
.434	.0000					
.449						
.482	.3600	.0000				
.502	.0000	.0000				

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (NUFC02)   (18 DEC 73)

REFERENCE DATA

SREF	=	49.4000	SQ.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7600	INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000	INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190	SCALE			

PARAMETRIC DATA

ALPHA	=	.000	POWER	=	.000
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	.000

MACH (1) = .901   BETA (1) = -6.079

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502						
-.482	.0000	.0000				
-.449	.0310					
-.434			.0100			
-.418						
-.397				.0000		
-.389			.0190			
-.344						
-.335				-.0030		
-.291					.0000	
-.266					-.0120	
-.251	.0160					
-.241		.0140				.0000
-.230						
-.225				-.0100		
-.198			-.0240			.0240
-.168						
-.133	-.0100	.0580	-.0130	-.0100		
.000					.0300	.0200
.230						.0400
.266						.0250
.291			-.0180			.0000
.336						
.344				.0310		
.389	.2990	.1250				
.397			.0000			
.418						
.434						
.449		.0000				
.482						
.502	.0000	.0000				

DATE 05 NOV 75

BULATED DATA FOR CAL T14-053 (IA35)

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.　(NUFC02)

MACH (1) = .900　BETA (2) = -3.049

SECTION (1)LOWER RH MPS NOZ.　DEPENDENT VARIABLE DELCP

Y/DE	X/DE .0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000	.0000	.0000	.0000		
-.482						
-.449	.0040	.0110				
-.434						
-.418						
-.397			.0250	.0000		
-.389						
-.344				-.0200		
-.336					.0000	
-.291					-.0040	
-.266						.0000
-.251	.0170	.0010				
-.241						.0100
-.230			-.0090	-.0240		
-.225						
-.198					-.0160	.0140
-.168						.0360
-.133						.0090
-.000	.0150	.0530	-.0130	-.0030	.0120	.0000
-.230						
-.266						
-.291					-.0250	
-.336					.0000	
-.344				.0290		
-.389			.1480			
-.397				.0000		
-.418		.3300				
-.434	.3170					
-.449						
-.402						
-.502	.0000	.0000	.0000			

MACH (1) = .901　BETA (3) = .000

SECTION (1)LOWER RH MPS NOZ.　DEPENDENT VARIABLE DELCF

Y/DE	X/DE .0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000	.0000	.0000	.000		
-.482						
-.449	.0180	.0180				
-.434						
-.418						
-.397				.0000		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A35 C2 + T1 + S1 LOWER RH MPS NOZ.   (NUFC02)

MACH (1) = .901   BETA (3) = .000

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.399			.0140			
-.344				-.0220		
-.335					-.0000	
-.291					-.0150	
-.266						.0000
-.251	.0240					
-.241		.0050				
-.230						.0270
-.225			-.0040			
-.198				-.0300		
-.168					-.0290	
-.133	-.0210					.0090
.000		.0500	-.0230	-.0020	.0120	.0300
.230						.0020
.266						.0000
.291					-.0060	
.3:6					.0000	
.744				.0330		
.389			.1900			
.397				.0000		
.418	.3500	.4450				
.434						
.449		.0000	.0000			
.482	.0000					
.502						

MACH (1) = .900   BETA (4) = 3.051

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000				
-.482			.0000			
-.449	.0060	.0150				
-.434			.0130			
-.4:8				.0000		
-.397					.0000	
-.389				-.0140		
-.344					-.0000	
-.336					-.0020	
-.291						.0000
-.266	-.0030					
-.251						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

(NUFC02)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = .900   BETA (4) = 3.051   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.241		-.0020				.0110
-.230						
-.225			-.0170			
-.198				-.0590		
-.168					-.0270	
-.133						-.0030
.000	-.0260	.0710	.0100	-.0020	.0000	.0210
.230						.003C
.266						.0000
.291					-.0210	
.336					.0000	
.344			.2570			
.369				.0290		
.397				.0000		
.418	.3830					
.434		.5440				
.449			.0000			
.482	.0000					
.502		.0000				

MACH (1) = .901   BETA (5) = 6.089   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000	.0000		
-.482						
-.449						
-.454	.0120	.0260	.0180	-.0130	-.0000	
-.418					-.0120	
-.397						
-.389						
-.344						
-.337						.0000
-.291						
-.266						
-.251	-.0310	-.0130				
-.241						.0200
-.230			.0030	-.0480	-.0230	
-.225						
-.198						-.0090
-.168						
-.133						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.   (NUFC02)

MACH (1) = .901   BETA (5) = 6.089

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
.000	-.0130	.0980	.0330	.0050	.0130	.0100
.230						-.0090
.266						.0000
.291					.0010	
.335					.0000	
.344			.3420			
.289				.0290		
.337				.0000		
.418		.5980				
.434	.3870					
.449			.0000			
.482	.0000					
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

(NUFC03)   (18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	POWER =	1.000
OPR =	36.200	SRMPR =	2.330
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) = .897   ALPHA (1) = -8.088

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0140	.0120				
-.418						
-.397			.0190	.0000		
-.389				-.0190		
-.344						
-.336					.0000	
-.291					-.0230	
-.266						.0000
-.251	-.0160	.0250				
-.241						
-.230			-.0510			
-.225						.0240
-.198				-.0110		
-.168					-.0250	.0290
-.133	-.0650	.0440	.0020	.0030	-.0080	.0700
.000						.0170
.230					-.0770	.0000
.266					.0000	
.291				.0450		
.336			.2050			
.344				.0000		
.389		.5680				
.397	.6080					
.418			.0000			
.434		.0000				
.449	.0000					
.482						
.502						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.　　(NUFC03)

MACH (1) = .899　　ALPHA (2) = -4.038　　DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0170	.0200		.0000		
-.434			.0210			
-.418				-.0190	-.0190	
-.397					-.0000	.0000
-.389						
-.344						
-.336						
-.291						
-.266	-.0180	.0260	.0250	-.0140	-.0270	.0190
-.251						
-.241						
-.230						
-.225						
-.198						
-.168						
-.133	-.0600	-.0050	-.0070	-.0120	-.0190	.0240
.000						.0130
.230					-.0010	-.0190
.266			.2020	.0390	.0000	-.0000
.291	.5710	.5860		.0000		
.336						
.344	.0000	.0000	.0000			
.339						
.397						
.418						
.434						
.449						
.482						
.502						

MACH (1) = .901　　ALPHA (3) = .001　　DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0110	.0070		.0000		
-.434						
-.418						
-.397						

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CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.   (NUFC03)

MACH (1) = .90¿   ALPHA (3) = .001

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.389			.0090			
-.344				-.0170		
-.336					.0000	
-.291					-.0250	
-.266						.0000
-.251	-.0040					
-.241						.0100
-.230		.0250				
-.225			.0350			
-.198				-.0060		
-.168					-.0190	
-.133						.0300
.000	-.0450	-.0080				.0180
.230			.0070	-.0090	-.0150	-.0130
.266						.0000
.291					.0110	
.336					.0000	
.344			.2480	.0580		
.389						
.397				.0000		
.418		.5410				
.434	.4650					
.449						
.482	.0000		.0000			
.502	.0000	.0000				

MACH (1) = .902   ALPHA (4) = 4.026

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482					.0000	
-.449					-.0290	
-.434	.0320	.0210				
-.413				.0000		
-.397			.0170			
-.389				-.0080		
-.344					.0000	
-.336					-.0290	
-.291						.0000
-.266						
-.251	-.0050					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (NUFCO3)

MACH (1) =   .902   ALPHA (4) =   4.026

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4050	.5800	.7540	.9280
Y/DE						
-.241						
-.230		.0330				
-.225			.0380			.0290
-.199				-.0170		
-.168					-.0280	
-.133						
.000	-.0340	-.0010	.0050	-.0030	-.0180	.0240
.230						.0140
.266						-.0110
.291					.0150	.0000
.336					.0000	
.344				.0650		
.389			.2270			
.397				.0000		
.418		.5290				
.434	.4640					
.449			.0000			
.482		.0000				
.502	.0000					

MACH (1) =   .898   ALPHA (5) =   6.021

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000	.0000		
-.482						
-.449	-.0140	-.0180				
-.434						
-.418			.0100	-.0110		
-.397						
-.389					.0000	
-.344					-.0210	
-.336						.0000
-.291						
-.266						
-.251	-.0040	.0260				
-.241			-.0350			-.0060
-.230				.0100	-.0060	
-.225						.0240
-.198						
-.168						
-.133						

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ. (NUFC03)

MACH (1) = .898 ALPHA (5) = 6.021

SECTION (1)LOWER RH MPS NOZ. DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
.000	-.0250	.0350	.0250	.0040	-.0120	.0470
.230						.0080
.266						.0000
.291					-.0510	
.336					.0000	
.344						
.399			.2590	.0600		
.397				.0000		
.416						
.434		.5190				
.449	.4900			.0000		
.482	.0000	.0000				
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 277

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

(NUFC04)   (18 DEC 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP =	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE	=	.0190 SCALE		

PARAMETRIC DATA

ALPHA	= .000	POWER	= 1.000
OPR	= 36.200	SRMPR	= 2.330
GP1	= 11.000	GY1	= -9.000
GP2	= .000	GY2	= -9.000
GP3	= .000	G.3	= -9.000

MACH ( ) = .899   BETA (1) = -6.078

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449						
-.434	.0410	.0180		.0000		
-.418						
-.397						
-.389			.0260	-.0090		
-.344						
-.336					-.0000	
-.291					-.0260	
-.266						.0000
-.251	.0430	.0390				
-.241						.0350
-.230			.0010	-.0090		
-.225						
-.198						
-.168						
-.133						
.000	.0150	.0450	.0300	.0080	.0190	.0450
.230						.0450
.266						-.0060
.291						.0000
.336			.1930	.0820	-.0150	
.344					.0000	
.389				.0000		
.397						
.418	.5130	.4290				
.434						
.449						
.492						
.502	.0000	.0000	.0000			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + T1 + S1 LOWER RH MPS NOZ.   (NUFC04)

MACH (1) =   .900   BETA (2) = -3.049

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/UE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0260	.0220	.0180	.0000		
-.434						
-.418				-.0030	-.0000	
-.397					-.0220	
-.379						.0000
-.344						
-.336						
-.291						
-.266						
-.251	.0050	.0190	.0070			.0240
-.241						
-.230				-.0130	-.0270	
-.225						
-.198						.0330
-.168						.0380
-.131	.0110	.0390	.0100	.0150	.0040	.0200
.000						.0000
.230						
.266					-.0210	
.291					.0000	
.336			.2160	.0600		
.344						
.369						
.397				.0000		
.418		.4300				
.434	.4530					
.449		.0000	.0000			
.482						
.502	.0000					

MACH (1) =   .899   BETA (3) =   .000

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/UE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0060	.0140	.0000	.0000		
-.434						
-.418						
-.397						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   (NUFCO4)

CAL T14-053 1A36 Q2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = .899   BETA (3) = .000

SECTION ( )LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.389			.0080			
-.344				-.0150		
-.336					.0000	
-.291					-.0280	
-.266						.0^ 0
-.251	-.0130					
-.241						.0160
-.230		.0300				
-.225			.0100			
-.198				-.0150		
-.168					-.0250	.0290
-.133						.0280
.000	-.0350	-.0060	.0130	-.0130	-.0070	.0090
.230						.0000
.266						
.291					-.0210	
.336					.0000	
.344				.0600		
.389			.2590			
.397				.0000		
.418		.5190				
.434	.4530					
.449			.0000			
.482		.0000				
.502	.0000					

MACH (1) = .898   BETA (4) = 3.051

SECTION ( )LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000				
-.449			.0000			
-.434	.0350	-.0160				
-.418						
-.397				.0000		
-.389			.0010			
-.344				-.0010		
-.336					.0000	
-.291					-.0180	
-.266						.0000
-.251	-.0750					

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH HPS NOZ.

(NUFC04)

MACH (1) = .898   BETA (4) = 3.051

SECTION (1)LOWER RH HPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.241						
-.230						.0370
-.225			.0160			
-.198				-.0210		
-.168					-.0310	
-.133		.0090				.0180
.000	-.0900	-.0040	-.0060	.0030	-.0010	.0120
.230						-.0250
.266						.0000
.291						
.336					-.0030	
.344			.3270	.0460	.0000	
.389				.0000		
.397						
.416		.6010				
.434	.4750					
.440			.6000			
.482		.0000				
.502	.0600					

MACH (1) = .899   BETA (5) = 6.086

SECTION (1)LOWER RH HPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.3280
Y/DE						
-.502	.0000	.0000				
-.482			.0020			
-.449						.0000
-.434	.0360	-.0540				
-.418				.0000		
-.397			-.0030			.0160
-.389				.0010		
-.344					.0000	
-.336					-.0050	
-.291						
-.266						.0110
-.251	-.1130					
-.241		.0070				
-.230			.0220			
-.225				-.0170		
-.198					-.0250	
-.168						
-.133						

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ. (NUFCO4)

MACH (1) = .899   BETA (5) = 5.098

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
.000	-.1120	-.0130	-.0120	-.0060	-.0070	.0070
.230						-.0320
.266						.0000
.291					.0080	
.336					.0000	
.344				.0540		
.389				.0000		
.397			.4340			
.418		.6290				
.434	.4650					
.449		.0000				
.482	.0000		.0000			
.502						

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.

(NUFC05)   (18 DEC 73)

REFERENCE DATA

PARAMETRIC DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

BETA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = 1.203   ALPHA (1) = -8.101

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/OE	.0580	.2320	.4060	.5800	.7540	.9280
Y/OE						
-.502	.0000	.0000				
-.482						
-.449	-.0100	-.0190				
-.434						
-.418						
-.397			.0420	.0000		
-.389						
-.344				-.0150		
-.335						
-.291					.0000	
-.266					-.0200	
-.251	.0360	-.0030				.0000
-.241						
-.230			-.0290			-.0080
-.225						
-.198				-.0100		
-.168					-.0060	
-.133						
.000	.1110	.0890	.0570	.0740	.0140	.0000
.230						.0170
.266						-.0020
.291					-.0250	.0000
.336					.0000	
.344						
.389			.2720	.0460		
.397				.0000		
.418						
.434	.6840	.7030				
.449						
.482	.0000	.0000	.0000			
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 U2 + T1 + S1 LOWER RH MPS NOZ.   (NUFC051)

MACH (1) = 1.202   ALPHA (2) = -4.038

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	-.0120	-.0190		.0000		
-.434						
-.418			.0830	-.0190		
-.397						
-.389					.0000	
-.344					-.0140	
-.335						
-.291						.0300
-.266	.0370	-.0060				
-.251			-.0310			-.0010
-.241				-.0130	-.0080	
-.230						
-.225	.0220	.0970	.0310	.0600	.0240	.0000
-.198						.0200
-.168						.0060
-.133						.0000
.000					-.0350	
.230				.0250	.0000	
.266		.5610	.2020	.0000		
.291	.6270					
.336	.0000	.0000	.0000			

MACH (1) = 1.203   ALPHA (3) = -.011

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	-.0120	-.0080		.0000		
-.434						
-.418						
-.397						

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T; + S1 LOWER RH MPS NOZ. (NUFC05)

MACH (1) = 1.203 ALPHA (3) = -.011

SECTION (1)LOWER RH MPS NOZ. DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.389			.0360			
-.344				-.0100		
-.336					.0000	
-.291					-.0070	
-.266						.0000
-.251	.0330					
-.241		-.0070				
-.230					.0000	
-.225			-.0280			
-.198				-.0130		
-.168					-.0010	
-.133						-.0010
.000	.0030	.0720	-.0010	.0480	.0210	.0250
.230						.0190
.266						.0000
.291					-.0440	
.336					.0000	
.344			.1430	-.0020		
.389				.0000		
.397						
.418	.4930	.4190				
.434						
.449						
.482	.0000	.0000	.0000			
.502						

MACH (1) = 1.203 ALPHA (4) = 4.003

SECTION (1)LOWER RH MPS NOZ. DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000				
-.482			.0000			
-.449	-.0180					
-.434		-.0110				
-.418				.0000		
-.397					.0000	
-.389			.0360	-.0220		
-.344					.0000	
-.336					-.0140	
-.291						.0000
-.266	.0290					
-.251						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

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CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.   (NUFC05)

MACH (1) = 1.203   ALPHA (4) = -.003

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.241		.0050				
-.230						-.0080
-.225			-.0280	-.0050		
-.198					.0110	
-.169						
-.133						
.000	.0020	.0600	.0050	.0340	.0160	.0100
.230						.0320
.266						.0150
.291						.0000
.335					-.0350	
.344					.0000	
.389				.0090		
.397			.0940			
.418		.2980				
.434	.4070					
.449			.0000	.0000	.0000	
.482	.0000					
.502	.0000					

MACH (1) = 1.202   ALPHA (5) = 6.018

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000				
-.482			.0000			
-.449		.0000				
-.434	-.0170					
-.418		-.0150				
-.397				.0000		
-.389			.0320			
-.344				-.0220		
-.336					.0000	
-.291					-.0220	
-.266						.0000
-.251	.0360					
-.241		.0100				
-.230			-.0400			
-.225				.0010		-.0100
-.198					-.0030	
-.169						.0160
-.133						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + TI + SI LOWER RH MPS NOZ.   (NUFCO5)

MACH (1) = 1.202   ALPHA (5) = 6.018

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
.000	-.0030	.0260	.0190	.0330	.0200	.0350
.230						.0080
.266						.0000
.291					-.0400	
.336					.0000	
.344						
.389			.0730	.0150		
.397				.0000		
.418		.2120				
.434	.3180					
.449			.0000			
.482		.0000				
.502	.0000					

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (NUFC06)   (18 DEC 73)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES		ALPHA = .000	POWER = .000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES		GP1 = 11.000	GY1 = -9.000
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES		GP2 = .000	GY2 = -9.000
SCALE = .0190 SCALE			GP3 = .000	GY3 = .000

MACH (1) = 1.202   BETA (1) = -6.079

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000				
-.449			.0000			
-.434	-.0030	.0010				
-.418			.0270	.0000		
-.397						
-.389				-.0030		
-.344					.0000	
-.336					-.0050	.0000
-.291						
-.266						
-.251	.0100	.0040				.0040
-.241			-.0080	.0020		
-.230					-.0020	
-.225						.0050
-.198				.0410	.0130	.0280
-.168						.0140
-.133						.0000
-.000	-.0030	.0280	-.5110			
.230						
.266				-.0220		
.291				.0020	.0000	
.336						
.344						
.389			.0370			
.337						
.418	.3510	.2400				
.434						
.449			.0000			
.482	.0000	.0000		.0000		
.502						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + TI + SI LOWER RH MPS NOZ.

MACH (1) = 1.202   BETA (2) = -3.051

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9290
Y/DE						
-.502	.0000					
-.482		.0000				
-.449			.0000			
-.434	-.0020					
-.418		-.0030				
-.397			.0080	.0000		
-.389				-.0010		
-.344					.0000	
-.336					.0000	
-.291						.0000
-.266						
-.251	.0040					
-.241		-.0010				
-.230			-.0120	-.0030		-.0020
-.225					.0080	
-.198					.0090	
-.168						.0020
-.133						.0310
-.000	-.0030	.0560	-.0160	-.0050		.0190
.230						.0000
.266					-.0230	
.291					.0000	
.336				-.0060		
.344			.0820			
.389				.0000		
.397		.3210				
.418	.4060					
.434			.0000			
.449		.0000				
.482						
.502	.0000					

MACH (1) = 1.202   BETA (3) = .000

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9290
Y/DE						
-.502	.0000					
-.482		.0000				
-.449	.0000		.0000			
-.434		.0000				
-.418				.0000		
-.397						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (NUFC06)

MACH (1) = 1.202   BETA (3) = .000

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5900	.7540	.9280
Y/DE						
-.389			.0130			
-.344				-.0150		
-.336						
-.291					.0000	
-.266					-.0050	.0000
-.251	.0220					
-.241		-.0120				
-.230						.0000
-.225						
-.198			.0000	.0000		
-.168					.0000	
-.133	.0060	.0870	.0000	.0350	.0110	-.0030
.000						.0260
.230						.0170
.266						.0000
.291					.0000	
.336				-.0070	.0000	
.344			.1350			
.389				-.0070		
.397				.0000		
.418	.0000	.4230				
.434						
.449	.0000	.0000	.0000			
.482	.0000					
.502	.0000					

MACH (1) = 1.203   BETA (4) = 3.051

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	-.0360					
-.434		-.0020				
-.418				.0000		
-.397			.0150	.0010		
-.389						
-.344					.0000	
-.336					-.0070	
-.291						
-.266	-.0190					.0000
-.251						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   (NUFC06)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

ORIGINAL PAGE IS POOR

MACH (1) = 1.203   BETA (4) = 3.051   DEPENDENT VARIABLE DELCP

SECTION (1) LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.241		-.0150				
-.230						
-.225			-.0200	-.0120		-.0080
-.198					.0030	
-.168						
-.133						
.000	.0270	.0930	.0220	.0040	.0010	-.0010
.230						.0290
.266						.0050
.291					-.0360	.0000
.336					.0000	
.344				.0230		
.389			.2070			
.397				.0000		
.418		.5720				
.434	.5710					
.449			.0000			
.482		.0000				
.502	.0000					

MACH (1) = 1.203   BETA (5) = 6.079   DEPENDENT VARIABLE DELCP

SECTION (1) LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482				.0000		
-.449						.0000
-.434	-.0340	-.0090				
-.418			.0430			
-.397				-.0220	.0000	
-.389					-.0080	
-.344						.0000
-.336						
-.291						
-.266						.0000
-.251	-.0130	-.0070				
-.241						-.0140
-.230			-.0120	-.0130		
-.225					-.0030	
-.198						.0020
-.168						
-.133						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (NUFC06)

MACH (1) = 1.203   BETA (5) = 6.079

SECTION (1)LOWER RH MPS NCZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
.000	.0080	.0700	.0610	.0730	.0030	.0230
.230						.0050
.265						.0000
.291					-.0240	
.336					.0000	
.344				.0450		
.389			.2620			
.397				.0000		
.418						
.434		.6620				
.449	.5590					
.482			.0000			
.502	.0000	.0000				

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190 SCALE			

(NUF 007)   16 DEC 73

PARAMETRIC DATA

BETA	=	.000	POWER	=	.000
OPR	=	28.310	SRMPR	=	2.020
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	-9.000

MACH (1) = 1.198   ALPHA (1) = -8.108

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Y/DE
-.502	.0000	.0000	.0000			
-.482						
-.449	-.0630	-.1440				
-.434						
-.418			-.0400	.0000		
-.397						
-.389				.0200		
-.344						
-.336					.0000	
-.291					-.0380	
-.266	-.1240	-.0810				.0000
-.251						
-.241			-.0530	.0030		.0140
-.230						
-.225						
-.198	-.1690	-.0530	-.0350	.0200	-.0010	.0110
-.168						.0130
-.133						.0110
-.000					-.0190	.0000
.162					.0000	
.336			.2560	.0430		
.344						
.389	.6370	.6580				
.397						
.418			.0000	.0000		
.434						
.449	.0000	.0000				
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 C2 + T1 + S1 LOWER RH MPS NOZ.   (NUFC07)

MACH (1) = 1.198   ALPHA (2) = -4.075

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

x/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	-.0460					
-.434		-.1080				
-.418			.0020	.0000		
-.397						
-.389				-.0020		
-.344						
-.336					-.0000	
-.291					-.0300	
-.266						.0000
-.251	-.0910					
-.241		-.0720				
-.230						.0230
-.225			-.0560			
-.198				-.0060	-.0390	
-.168						
-.133	-.1390	-.0330	-.0310	.0190	.0070	.0170
.000						.0340
.230						.0140
.266						.0000
.291					-.0130	
.336					.0000	
.344			.2120	.0120		
.389				.0000		
.397						
.418	.5640	.5340				
.434						
.449			.0000			
.482	.0000	.0000				
.502						

MACH (1) = 1.197   ALPHA (3) = -.023

SECTION (1)LOWER RH MPS NOZ   DEPENDENT VARIABLE DELCP

x/DE	.0580	.2320	.060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	-.0560					
-.434		-.1080	.0000			
-.418						
-.397				.0000		

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

(NJFC07)

CAL T14-053 IA36 O2 + T1 - SI LOWER RH MPS NOZ.

MACH (1) = 1.197   ALPHA (3) = -.023

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/CE	.0580	.2320	.4060	.5800	.7500	.9280
Y/DE						
-.389			-.0680			
-.314				-.0130		
-.336					.0000	
-.291					-.0140	
-.265						.0000
-.251	-.0800					
-.241		-.0410				
-.230			-.0430			
-.225				-.0150		
-.198						.0250
-.168						
-.133						
.000	-.1190	-.0390	-.0240	-.0090	-.0260	.0060
.230					.0010	.0270
.266						.0030
.291					.0040	.0000
.336					.0000	
.344				-.0030		
.389			.1550			
.397				.0000		
.418		.4100				
.434	.4460					
.449						
.482	.0000		.0000			
.502	.0000	.0000				

MACH (1) = 1.196   ALPHA (4) = 4.017

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/OE	.0560	.2320	.4060	.5800	.7540	.9280
Y/OE						
-.502	.0000	.0000				
-.482		.0000				
-.449			.0000			
-.434	-.1050	-.1050				
-.418				.0000		
-.397			-.0530			
-.389					.0000	
-.344				.0210		
-.336					.0000	
-.231					-.0040	
-.266	-.1750					.0000
-.251						

CAL T14-053 IA35 O2 + T1 + S1 LOWER RH MPS NOZ.   (NUFC07)

MACH (1) = 1.196   ALPHA (4) = 4.017   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.241		-.0880				
-.230						.0250
-.225			.0000	-.0110		
-.193					-.0280	-.0160
-.168					.3230	.0000
-.133						.0190
.000	.0000	.0000	-.0150	.0180		.0000
.230						
.266						
.291				-.0220		
.336				.0000		
.344			.0000	.0000		
.389						
.397		.2140				
.418	.3390					
.434		.0000	.0000			
.449						
.482	.0000					
.502						

MACH (1) = 1.200   ALPHA (5) = 6.028   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502		.0000	.0000			
-.482						
-.449	-.1270	-.1490				
-.434			-.0560	.0000		
-.418						
-.397				.0100		
-.389		-.0960				
-.344					.0000	.0000
-.336					-.0210	
-.291						.0000
-.266						
-.251	-.1500					
-.241						
-.230			.0000	.0220		.0000
-.225						
-.198						
-.168				-.0020		
-.133						.0000

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CAL T14-053 IA36 C2 + T1 + S1 LOWER RH MPS NOZ.   (NUFCO7)

MACH (1) = 1.200   ALPHA (5) = 5.028

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5900	.7540	.9280
Y/DE						
.000	.0000	.0000	-.0260	.0130	.0070	.0000
.230						.0200
.265						.0000
.291					.0000	
.336					.0000	
.344				-.0010		
.389			.0000			
.397				.0000		
.418						
.434	.251J	.0990				
.449			.0000			
.482	.0000					
.502	.0000					

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

(NUFC08) (18 DEC 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP =	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE	=	.0190 SCALE		

PARAMETRIC DATA

ALPHA	=	.000	POWER =	1.000
OPR	=	28.310	SRMPR =	2.020
GP1	=	11.000	GY1 =	-9.000
GP2	=	.000	GY2 =	-9.000
GP3	=	.000	GY3 =	-9.000

MACH (1) = 1.194   BETA (1) = -6.074

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4050	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	-.1250	-.1650				
-.434						
-.418				.0000		
-.397			-.1000	-.0430		
-.389						
-.344					.0000	
-.336					-.0510	.0000
-.291						
-.266	-.0690	-.0900				
-.251			-.0710	-.0200		
-.241						.0210
-.230					-.0490	.0030
-.225					-.0090	.0050
-.198	-.0780	-.0570	-.0360	-.0060		-.0010
-.188						.0000
-.133						
.000				-.0050	-.0030	
.230					.0000	
.266						
.291						
.336		.2030	.0330			
.344	.3850					
.389						
.397						
.418	.0000	.0000	.0000			
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 (1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (NUFC08)

MACH (1) = 1.194   BETA (2) = -3.044

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000				
-.449	-.0940					
-.434			-.1310			
-.418						
-.397				.0000		
-.389			-.0900			
-.344				-.0230		
-.336						
-.291					.0000	
-.266					-.0380	
-.251	-.0730					
-.241		-.0810				
-.230						.0000
-.225			.0000			
-.198				-.0340		
-.168					-.0460	
-.133						.0310
-.000			.0000	-.0110	.0280	-.0060
.230					.0000	.0000
.266						.0100
.291						.0000
.336				.0000	.0000	
.344				-.0170		
.389			.0000			
.397				.0000		
.418		.2920				
.434	.3840					
.449		.0000				
.482	.0000					
.502	.0000					

MACH (1) = 1.199   BETA (3) = .000

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000				
-.449	-.0420					
-.434			-.1050			
-.418				.0000		
-.397					.0000	

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(NUFC08)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) =   1.199   BETA (3) =   .000   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.389			-.0280	-.0290		
-.344					.0000	
-.336					-.0370	.0000
-.291						
-.266						
-.251						.0300
-.241	-.0650	-.0320				
-.230						
-.225			-.0260	-.0300	-.0370	
-.198						
-.168						.0240
-.133						.0170
-.000	-.0980	-.0610	-.0140	-.0050	.0180	.0020
.230						.0000
.266						
.291					.0090	
.336					.0000	
.344			.1340	.0210		
.389				.0000		
.397						
.418		.3430				
.434	.4210					
.449						
.482		.0000	.0000			
.502	.0000					

MACH (1) =   1.195   BETA ( ) =   3.049   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449						
-.434	-.0920	-.1590				
-.418						
-.397			-.0760	.0000		.0000
-.389						
-.344				-.0350		
-.336						
-.291					.0000	
-.266					-.0460	
-.251	-.2080					

DATE 05 NOV 75   TABULATED DATA FOR CAL TI4-053 (IA36)

CAL TI4-053 IA36 O2 + TI + SI LOWER RH MPS NOZ.   (NUFC08)

MACH (1) = 1.195   BETA (4) = 3.049

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.241						
-.230		-.0970				
-.225			-.0590			.0240
-.198				-.0160		
-.168					-.0290	
-.133						
.000	-.1210	-.0430	-.0120	.0100	.0150	-.0760
.230						-.0880
.266						-.0130
.291					-.0190	.0000
.336					.0000	
.344			.2020			
.389				-.0070		
.397				.0000		
.418		.5260				
.434	.5290					
.449			.0000	.0000		
.482						
.502	.0000	.0000				

MACH (1) = 1.197   BETA (5) = 6.079

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Y/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	-.0450					
-.434		-.1140				
-.418				.0000		
-.397			-.0440	.0010		
-.389						
-.344					.0000	
-.3.6					-.0260	
-.291						.0000
-.266						
-.251	-.1160					
-.241		-.0290				
-.230						.0020
-.225			-.0600			
-.198				-.0130	-.0230	
-.168						-.0020
-.133						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + TI + S1 LOWER RH MPS NOZ.   (NUFCOB)

MACH (1) = 1.197   BETA (5) = 6.079

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4050	.5800	.7540	.9280
Y/DE						
.000	-.1470	-.0230	-.0190	-.0180	-.0140	-.0010
.230						-.0060
.266						.0000
.291						
.336					-.0300	
.344					.0000	
.389			.2800			
.397				.0410		
.418				.0000		
.434	.5580	.5660				
.449						
.492	.0000	.0000				
.502						

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (SUFA01)   (18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) =   .901   ALPHA (1) =   -8.088

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE → Z/DE ↓	.0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000					
-.482		.0000				
-.449	.0000					
-.434		.0370				
-.418						
-.397				.0000		
-.369			-.0030	-.0170		
-.344						
-.336					-.0120	
-.291					.0000	
-.266						.0000
-.251	-.0030					
-.241		.0300				
-.230						.0210
-.225			-.0040			
-.198				-.0170		
-.168					.0130	-.0030
-.133						
-.000	-.2500	-.3610	-.1020	-.0050	.0070	-.0070
.000		-.3610	-.1020	-.0050	.0070	.0080
.133					.0210	
.160						
.198			-.1230	-.0970		
.225						
.230						-.0130
.241	.6150					
.251		-.0500				
.266						.0000
.291					.0210	
.335				.4610	.0000	
.336						
.344			.1540			
.389		.1100				
.397				.0000		
.418						
.434	.4370					
.449		.0000	.0000			
.482	.0000					
.502	.0000					

DATE 25 NOV 75   TABULATED DATA FOR CAL T14-053 (1A35)

CAL T14-053 :A35 O2 + T1 + S: UPPER MPS NOZZLE   (SURFACE)

MACH (1) = .900   ALPHA (2) = -4.009

SECTION (1:UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0000					
-.434		.0250				
-.418			.0060	.0000		
-.397						
-.389				-.0180		
-.344						
-.336					-.0000	
-.291					-.0230	.0000
-.266						
-.251	.0020	.0090				
-.241						.0160
-.230						
-.225			-.0020	-.0050	.0010	
-.198						-.0050
-.168						
-.133						
-.000	-.2320	-.3520	-.0870	.0020	-.0010	.0050
-.000		-.3520	-.0870	.0020	.0210	.0150
.133						
.168			-.0860	-.0690		-.0170
.198						
.225						
.230						
.241	.5400	-.0510				
.251					.0410	.0000
.266					.0000	
.291				.3530		
.336			.0570			
.344				.0000		
.389						
.397	.4590	.0960				
.418						
.434						
.443		.0000	.0000			
.482						
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (SUFA01)

MACH (1) = .900   ALPHA (3) = .013

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449			.0000			
-.434	-.0080	.0310				
-.418				.0000		
-.397						
-.389			.0080			
-.344				-.0110		
-.336						
-.291					.0000	
-.266					-.0620	
-.251	.0100					.0000
-.241		-.0040				
-.230						.0320
-.225			-.0090			
-.198				-.0090	.015J	
-.168						-.0120
-.133	-.2020	-.2650	-.0770	.0010	.0010	-.0060
-.000		-.2650	-.0770	.0010	-.0060	.0020
.133				-.0540		
.168			-.0620			
.225					-.0060	
.230						-.0260
.241	.4440	-.0370				
.251						
.266						.0000
.291						
.162						
.335			.3380			
.344		-.0010				
.369					.0400	
.397	.3870		.0000	.0000	.0000	
.418		.0510				
.434	.0000	-.0010				
.644		.0000				
.482			.0000			
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE   (SUFA01)

MACH (1) = .899   ALPHA (4) = 4.005

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5085	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	-.0080					
-.434		.0140				
-.418			.0000			
-.397						
-.389			.0200			
-.344			-.0290	-.0290		
-.336					-.0000	
-.291						
-.266						.0000
-.251	.0120	-.0230				
-.241						.0360
-.230			-.0140	-.0200		
-.225						
-.198					.0100	
-.168						-.0060
-.133	-.1710	-.0620	-.0780	-.0030		
-.000		-.0620	-.0780	-.0030	.0000	-.0040
-.000					.0000	.0050
-.111						
-.168					.0010	
-.198						
-.225						
-.230		-.0390	-.0640	-.0340		
-.141						-.0420
-.251	.3460	-.0390				
-.266						
-.291					.0380	
-.336					.0000	.0000
-.344			-.0550	.2750		
-.389				.0000		
-.397						
-.418						
-.434	.3940	.0050				
-.449						
-.482		.0000	.0000			
-.502	.0000					

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36) PAGE 306

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE (SUPA01)

MACH (1) = .699 ALPHA (5) = 6.006

SECTION (1) UPPER MPS NOZZLE DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	-.0130					
-.434		.0350				
-.418			.0270	.0000		
-.397					.0000	
-.389				-.0150	-.0270	
-.344						
-.336						
-.291						.0000
-.266	.0080					
-.251		-.0200				
-.241			-.0320			.0430
-.230				.0020		
-.225					.0260	-.0310
-.196			-.0670	-.0040	-.0040	-.0010
-.168	-.1500	-.1850	-.0670	-.0040		.0220
-.133		-.1850			-.0240	
-.000				-.0360		
.133			-.0570			-.0380
.168						
.198						
.225		-.0320				
.230	.3380				.0380	.0000
.241				.2340	.0300	
.251			-.1280	.0000		
.266						
.291						
.336		-.0150				
.344	.3850		.0000			
.389		.0000				
.397	.0000					
.418						
.434						
.449						
.482						
.502						

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE

(SUFA02)   18 DEC 73

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF =	90.7000 INCHES	YMRP = .0000 INCHES
BREF =	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE =	.0190 SCALE	

PARAMETRIC DATA

ALPHA =	.000	POWER =	.000
GP1 =	.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = .90   BETA (1) = -6.079

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449						
-.434	-.0040	.0230				
-.418			.0130	.0000		
-.397						
-.389				-.0360	-.0000	
-.344					-.0050	.0000
-.336						
-.291						
-.266	.0160	-.0200				.0240
-.251			-.0240	-.0040		
-.241					.0110	-.0180
-.230						
-.225						
-.198						
-.168						
-.135	.0180	-.0500	.0040	-.0030	-.0110	.0000
-.000		-.0500	.0040	-.0030		.0120
.000						
.133				.0160	-.0180	
.168						
.198			-.1280			
.225						
.230					-.0400	
.241	.0730	-.2960				
.251						
.266				.0310	.0000	
.291				.0000		
.336			-.0330			
.344		-.0290				
.389			.0000			
.397		.0600				
.418						
.434	-.0040					
.449						
.482		.0000				
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (SUFA02)

MACH (1) =   .900   BETA (2) = -3.049

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

Z/DE	.0580	.2320	.4060	.5800	.7540	.9280
-.502						
-.482	.0000	.0000				
-.443			.0000			
-.434						
-.418	.0080	.0160				
-.397			.0040			
-.389				.0000		
-.344				-.0040		
-.336						
-.291					.0000	
-.266					-.0220	.0000
-.251	.0240					
-.241		-.0130				.0230
-.230			-.0270			
-.225				-.0010		
-.198					.0140	
-.168						-.0080
-.133						
-.000	-.0390	-.0920	-.0200	.0000	.0100	.0200
.000		-.0920	-.0200	.0000	.0140	.0140
.133						.0110
.168						-.0190
.198				-.0260	-.0120	
.225						
.230			-.1860			
.241		-.2640				
.251	.1680					
.266						
.291						.0000
.336					.0010	
.344				.0770	.0000	
.389			.1340			
.397				.0000		
.418	.1870					
.434		.1890				
.449			.0000			
.482		.0000				
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

MACH (1) = .90;   BETA (3) = .000

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE   (SUFA02)

SECTION (1)UPPER MPS NOZZLE

DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0020					
-.434		.0220				
-.418				.0000		
-.397						
-.389			-.0050			
-.344				-.0210		
-.336						
-.291					.0000	
-.266					-.0190	
-.251						.0000
-.241	.0120	-.0040				
-.230						
-.225						.0280
-.198			-.0200	-.0070		
-.158					.0000	-.0040
-.133						
-.000	-.1930	-.2690	-.0870	.0010	.0100	-.0030
.000		-.2690	-.0870	.0010		.0040
.133					.0120	
.168						
.198						
.225			-.0950	-.0550		
.230						-.0290
.241	.4160	-.0550				
.251						
.266					.0270	.0000
.291					.0000	
.336				.3250		
.344			.0190			
.389				.0000		
.397						
.418		.0410				
.434	.4070					
.449						
.482	.0000	.0000				
.502						

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE   (SUFA02)

MACH (1) = .990   BETA (4) = 3 051

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502						
-.482	.0000	.0000		.0000		
-.449						
-.434	-.0180	.0180				
-.418			.0020			
-.397				.0000		
-.389				-.0170		
-.344					.0000	
-.336					-.0210	
-.291						.0000
-.266						
-.251	-.0350	-.0100				
-.241						.0310
-.230			-.0180	-.0070		
-.225					.0150	
-.198						-.0160
-.168			-.2270	-.0030	.0080	.0070
-.133	-.2500	-.2450	-.2270	-.0030		-.0020
-.000		-.2450			.0120	
.133						
.168			.1130	-.0930		
.198						-.0070
.225						
.230	.5580	.3510				
.251						
.256				.5230		.0000
.291					.0330	
.336			-.0070	.0000	.0000	
.344		.0790				
.389	.5540					
.397						
.418		.0000	.0000			
.434	.0000					
.449						
.432						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 311

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE   (SUFA02)

MACH (1) = .901   BETA (5) = 6.089

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4000	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449						
-.434	-.0410					
-.418		.0070				
-.397			.0000			
-.380						
-.344			-.0210			
-.336				-.0350		
-.291					.0000	
-.266					-.0170	.0000
-.251	-.0720					
-.241		.0090				
-.230						.0190
-.225			-.0250			
-.198				-.0010		
-.168					-.0020	-.0160
-.133					.0050	-.0040
-.000	-.2280	-.0630	-.2380	-.0270		.0060
-.000		-.0630	-.2380	-.0270	-.0200	
.133				-.1310		
.168						
.198						
.225			.2530			
.230						-.0190
.241	.7930	.7470				
.251						
.266					.0680	.0000
.291					.0000	
.336				.7630		
.344			.0850			
.389				.0000		
.397						
.418	.6780	.1810				
.434						
.449						
.482		.0000	.0000			
.502	.0000					

CAL T14-053 [A36 O2 + T1 + S1 UPPER MPS NOZZLE

(SUFA03)   (18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	POWER =	1.000
OPR =	36.200	SRMPR =	2.330
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) = .897   ALPHA (1) = -8.088

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

Z/DE \ X/DE	.0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000					
-.482		.0003	.0000			
-.449						
-.434	-.0130		-.0170			
-.418						
-.397			-.0220	.0000		
-.389						
-.344			-.0230			
-.336				-.0000	-.0130	
-.291						.0000
-.266						
-.251	-.0750	-.0250				
-.241						
-.230			-.0750			.0740
-.225						
-.198				-.0350	.0580	.0140
-.168						
-.133						
-.000	-.1410	-.3320	-.1560	-.0110	-.0100	.0000
.000		-.3320	-.1560	-.0110	-.0350	
.133						
.168				-.0840	-.0160	
.198						
.225			-.1550			
.230						
.241						-.0370
.251	.8620	-.2800				
.266						
.291				.0320	.0000	
.336						.0000
.344		.8900	.1530	.0000		
.389						
.397						
.418		.1010				
.434	.6480					
.449						
.482	.0000	.0000				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

(SUFA03)

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = .897   ALPHA (1) = -8.088

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE						
.502	.0000					

MACH (1) = .899   ALPHA (2) = -4.038

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE	.0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000	.0000	.0000			
-.482						
-.449						
-.434	.0100	-.0150				
-.418						
-.397			-.0240	.0000		
-.389				-.0290		
-.344						
-.336					-.0000	.0000
-.291					-.0070	
-.266						
-.251	-.0350	.0570				
-.241						
-.230						.0050
-.225			-.0120	-.0240		
-.198					-.0180	.0160
-.168						
-.133						
-.000	-.1170	-.3030	-.1200	.0000	-.0140	-.0140
-.000		-.3030	-.1200	.0000		-.0270
.133					.0330	
.168						
.198				-.0620		
.225			-.0820			
.230						.0120
.241	.7410	-.1120				
.251						
.266					.0160	.0000
.291					.0000	
.336				.7090		
.344			.0640	.0000		
.389						
.397		.1090				
.418						
.434	.7100	.1090				
.449		.0000	.0000			

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

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CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (SUFAO3)

MACH (1) = .899   ALPHA (2) = -4.038

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE						
.482	.0000					
.502	.0000					

MACH (1) = .901   ALPHA (3) = .001

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE	.0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000					
-.482						
-.449						
-.434	.0050					
-.418		-.0140				
-.397			.0000			
-.389						
-.344			-.0170			
-.336				-.0110		
-.291					-.0000	
-.266					-.0100	.0000
-.251	-.0310	.0350				
-.241						
-.230						-.0170
-.225			-.0100			
-.198					-.0270	
-.168			-.0340			
-.133						.0060
-.000	-.1380	-.3010	-.1320	.0010	-.0130	-.0110
-.000		-.2010	-.1320	.0010		-.0190
.133					.0220	
.168			-.0880	-.0430		
.198						
.225						
.230						.0160
.241	.6410	-.0990				
.251						
.266					.0220	
.291					.0000	.0000
.336			.5990			
.344	-.0130					
.369						
.397				.0000		
.418	.0590					
.434	.6160					

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(SUFA03)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = .901   ALPHA (3) = .001

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.449			.0000			
.482						
.502	.0000					

MACH (1) = .902   ALPHA (4) = 4.026

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0030	-.0100				
-.434						
-.418			.0000			
-.397						
-.389		-.0100	-.0250			
-.344						
-.336				.0000		
-.291				-.0090		
-.266					.0000	
-.251	.0020	.0200				
-.241					-.0020	
-.230			-.0020	-.0250		
-.225						
-.198				-.0370	-.0050	
-.168						
-.133	-.1290	-.2940	-.1160	-.0030	-.0160	-.0150
-.000	-.2940	-.1160	-.0030			-.0180
.133				.0360		
.168						
.198			-.1020	-.0190		
.225						
.230					-.0130	
.241		-.1040				
.251	.5220					
.266					.0000	
.291				.0350		
.336			.3640	.0000		
.344						
.389		-.1090				
.397			.0000			
.418	.0160					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   (SUFA03)

CAL T14-053 (1A36 O2 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = .902   ALPHA (4) = 4.026

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.434	.6000					
.449						
.482		.0000				
.502	.0000		.0000			

MACH (1) = .898   ALPHA (5) = 6.021

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0090	-.0080				
-.418						
-.397			.0000			
-.389			-.0050	.0140		
-.344						
-.336					.0000	
-.291					-.0130	
-.266						.0000
-.251	-.0310	-.0570				
-.241						.0290
-.230						
-.225			-.0380	-.0240		
-.198					.0360	
-.168						-.0070
-.133						
-.000	-.1240	-.2790	-.1170	.0020	-.0070	
-.000		-.2790	-.1170	.0020		.0030
.133						-.0120
.168						-.0210
.198				-.1210	-.0200	
.225						
.230						-.0500
.241		-.0790				
.251	.5110					
.266						
.291				.2940	.0300	
.336					.0000	
.344						
.389			-.1620			
.397				.0000		.0000

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE   (SUFA03)

MACH (1) = .898   ALPHA (5) = 6.021

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.418						
.434	.5640	-.0040				
.449						
.482	.0000	.0000				
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 3:8

                        CAL T14-053 1A36 02 + T1 + S: UPPER MPS NOZZLE   (SURFAC4)   (18 DEC 73)

            REFERENCE DATA   PARAMETRIC DATA

SREF = 49.4000 SQ.FT.   XMRP = 158.0000 INCHES   ALPHA =   .000   POWER = -.000
LREF = 90.7000 INCHES   YMRP =   .0000 INCHES   OPR   = 36.200   SRMPR = 2.330
BREF = 90.7000 INCHES   ZMRP =   .0000 INCHES   GP1   = 11.000   GY1   = -9.000
SCALE =   .0190 SCALE   GP2   =   .000   GY2   = -9.000
                                                           GP3   =   .000   GY3   = -9.000

MACH (1) =   .899   BETA (1) = -6.078

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0020	-.0270				
-.434				.0000		
-.418			-.0210	-.0480		
-.397					.0000	
-.389				-.0380		
-.344						.0000
-.336						
-.291						.0140
-.266	-.0020	-.0220	-.0320	-.0380	-.0130	
-.251						.0090
-.241	-.001C	-.0370	-.0120	.0020	.0050	-.0050
-.230		-.0370	-.0120	.0020		-.0180
-.225				.0430	-.0100	
-.198		-.1650				
-.168						-.0330
-.133	.1670	-.3800		.0800	.0000	
-.000					.0020	
-.000	.0120	.1300	-.0300	-.0820		.0000
-.133			.0000			
-.168						
-.284						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = .899   BETA (1) = -6.078

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE .502	.0000					

MACH (1) = .900   BETA (2) = -3.049

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000				
-.482			.0000			
-.449	-.0110	-.0220				
-.434				.0000		
-.418			-.0130			
-.397				-.0340		
-.389					.0000	
-.344					-.0240	.0000
-.336	.0050	-.0180				
-.291			-.0310			.0020
-.266				-.0170		
-.251					.0030	.0010
-.241	-.1220	-.1190	-.0530	.0080	-.0040	-.0020
-.230		-.1180	-.0530	.0080		-.0170
-.222					-.0010	
-.198				.0100		
-.168			-.2770			-.0450
-.133	.3070	-.2760				
-.000					-.0040	.0000
.000				.1000	.0000	
.133		.1210				
.168			.0000			
.198	.3100	.1750				
.225			.0000			

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CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (SUFA04)

MACH (1) = .900 BETA (2) = -3.049

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
| .482 | .0000 |
| .502 | | | | | | |

MACH (1) = .699 BETA (3) = .000

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE

Z/DE					
.502	.0000	.0000	.0000			
.482						
.449	.0040	-.0130				
.434						
.418			-.0220	.0000		
.397				-.0140		
.389					.0000	
.344					-.0090	
.336						
.291						.0000
.266						
.251	-.0040	-.0190				.0120
.241						
.230			-.0250	-.0260		
.225						.0050
.198					-.0010	.0230
.168						.0210
.133	-.1240	-.3150	-.1300	-.0010	-.0080	-.0010
.000		-.3150	-.1300	-.0010		
.000					.0090	
.133						
.168			-.0970	-.0440		
.198						-.0290
.225		-.1020				
.230						
.241	.5990				.0260	.0000
.251				.4360	.0000	
.266						
.291						
.336		.0170				
.344			.0000			
.389						
.397	.6100	.0620				
.418						
.434						

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TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE (SUFAO4)

MACH (1) = .999   BETA (3) = .000   DEPENDENT VARIABLE DELCP

SECTION (1)UPPER MPS NOZZLE

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE						
.449						
.482						
.502	.0000	.0000	.0000			

MACH (1) = .898   BETA (4) = 3.051   DEPENDENT VARIABLE DELCP

SECTION (1)UPPER MPS NOZZLE

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE						
-.502	.0000	.0000				.0000
-.482						
-.449						.0220
-.434						
-.418	-.0350	-.0250		-.0250	-.0100	.0090
-.397			.0000			
-.389						
-.344		-.0240				
-.336			-.0430		-.0000	-.0170
-.291					-.0070	-.0360
-.266						
-.251	-.0240					
-.241		-.0030				
-.230			-.0320			
-.225				-.0250		
-.198						
-.168						
-.133						
-.000	-.1510	-.1810	-.2630	-.0130	-.0060	-.0170
.000		-.1810	-.2630	-.0130	-.0060	-.0360
.133					.0020	
.164				-.1200		
.198			.2280			
.225						
.230						-.0130
.241		.2820				
.251	.7840					
.266						.0000
.291					.0450	
.336					.0000	
.344				.6495		
.389			.0060			
.397				.0000		
.418	.0850					

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE   (SUFAC+)

MACH (1) =   .898   BETA (4) =   3.051

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
.434	.8320					
.449		.0000				
.482	.0000	.0000				
.502						

MACH (1) =   .899   BETA (5) =   6.088

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
-.502	.0000	.0000				
-.482		.0000	.0000			
-.449						
-.434	-.0650					
-.418		-.0370				
-.397			.0000			
-.389			-.0530	-.0370		
-.344					.0000	
-.336					-.0080	
-.291						.0000
-.266						
-.251	-.0560					.0050
-.241		.0130				
-.230			-.0290	-.0260	-.0240	.0130
-.225						
-.198						
-.168						
-.133			-.2650	-.0280	.0030	-.0140
-.000	-.1880	-.0430	-.2650	-.0280	-.0130	-.0540
-.000		-.0490				
-.133						
-.168			.3870	-.1540	-.0240	
-.198						
-.225						
-.230						
-.241	1.0860	.6630				
-.251						.0000
-.266				.0640		
-.291				.0000		
-.336			.8670			
-.344						
-.389		.0660	.0000			
-.397						

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TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE

(SUFA04)

MACH (1) = .899   BETA (5) = 6.088

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.418						
.434	.9550	.2180				
.449						
.482	.0000	.0000				
.502	.0000	.0000				

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE   (SUFA05)   (18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) =   1.203   ALPHA (1) =   -8.101

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

Z/DE	X/DE .0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000	.0000	.0000	.0000		
-.482						
-.449						
-.434	-.0100	.0310	-.0030	.0010	-.0120	
-.418						
-.397					.0000	
-.389						.0000
-.344						
-.336						
-.291						
-.266						.0250
-.251	.0040	.1030	.0060	.0050	.0170	.0130
-.241						
-.230						
-.225						
-.198						
-.168						
-.133	.0060	-.1890	-.1060	.0170	.0360	.0140
-.000		-.1890	-.1060	.0170	.0190	.0190
.000					.0070	
.133				-.0710		
.168						
.198						-.0070
.225						
.230	.9180	-.1240	-.3730			
.241						
.251					.0820	.0000
.266					.0000	
.291						
.336				.4920		
.344			.0980			
.389				.0000		
.397	.5330	.0100				
.418						
.434						
.449	.0000	.0000	.0000	.0000		
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (SUFA05)

MACH (1) = 1.202   ALPHA (2) = -4.038

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502						
-.482	.0000	.0000	.0000			
-.449						
-.434	.0120	.0260				
-.418						
-.397			-.0040	.0000		
-.389						
-.344				-.0080		
-.336					.0000	
-.291					-.0110	
-.266						.0000
-.251	.0150	.0460				
-.241						.0280
-.230			-.0070	-.0040	.0170	
-.225						
-.198				.0030	.0320	.0070
-.168				.0030		.0080
-.133					-.0090	.0220
-.000	-.0910	-.2480	-.0680			
-.000	-.0910	-.2480	-.0680			
-.133						
-.168				-.0280		
-.198			-.2770			-.0170
-.225						
-.230						
.241	.8420	-.1200				
.251					.0500	
.266					.0000	.0000
.291						
.336			.5440			
.344			.1310			
.369			.0000			
.397						
.418	.4980	.0930				
.434						
.449						
.482	.0000	.0000				
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(SUFA05)

MACH (1) =   1.203   ALPHA (3) =   -.011

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449	.0110					
-.434		.0230				
-.418			.0000			
-.397			.0050			
-.389				.0000		
-.344				-.0120		
-.336					.0000	
-.291					-.0170	
-.266						.0000
-.251	.0100	.0160				
-.241						.0340
-.230			-.0130	-.0130		
-.225					.0190	
-.198						.0010
-.168						
-.133	-.1200	-.3290	-.0470	.0000	.0200	.0070
-.000		-.3290	-.0470	.0000	.0130	.0100
-.000						
-.133						
-.168			-.2040	-.0080		
-.198						
-.225						-.0290
-.230						
-.241	.6500	-.0780				
-.251						.0000
-.266					.0410	
-.291					.0000	
-.336				.5550		
-.344			.1570			
-.389				.0000		
-.397		.1400				
-.418	.5200					
-.434				.0000		
-.449		.0000				
-.482						
-.502	.0000					

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CAL T14-053 IA36 O2 + T1 :: S1 UPPER MPS NOZZLE   (SUFA05)

MACH (1) = 1.203   ALPHA (4) = 4.003

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000		
-.482	.0000					
-.449	.0260	.0060				
-.434						
-.418			-.0080	.0000		
-.397				-.0110		
-.389					.0000	
-.346					-.0230	.0000
-.291	-.0070	.0360				.0250
-.251			-.0260	-.0240	.0180	
-.225						.0070
-.198	-.1010	-.2820	-.0080	-.0070	.0050	-.0030
-.133		-.2820	-.0080	-.0070		.0060
-.000					-.0010	
.168			-.1780	.0290		
.230						-.0200
.251	.4770	-.0460				
.336			.0350	.4800	.0370	.0000
.397				.0000	.0000	
.434	.4460	.0340				
.502	.0000	.0000	.0000			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (SUFA05)

MACH (1) = 1.202   ALPHA (5) = 6.018

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

Z/DE	.0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000					
-.482						
-.449	.0360					
-.434						
-.418		.0010				
-.397			-.0150			
-.389				.0000		
-.344				-.0080		
-.336					.0000	
-.291					-.0180	
-.266						.0000
-.251	-.0150	.0220				
-.241			-.0340			.0360
-.230				-.0300		
-.225					.0300	
-.198						.0100
-.168	-.0670	-.2050	.0040	-.0070	.0010	.0010
-.133		-.2050	.0040	-.0070	.0010	.0100
-.000				-.0120		
-.000			.0510			
.168			-.1680			
.198						-.0240
.225	.3950	-.0120				
.230					.0300	.0000
.241					.0000	
.251				.4020		
.266			-.2150			
.291				.0000		
.336		-.1280				
.344	.4790					
.389		.0000				
.397	.0000					
.418						
.434						
.449						
.482						
.502						

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

(SUFA06)   (18 DEC 73)

ALPHA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = 1.202   BETA (1) = -6.079

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/OE	.0580	.2320	.4060	.5800	.7540	.9280
Z/OE						
-.502	.0000	.0000				
-.482						
-.449	.0280	.0200				
-.434						
-.418			.0000			
-.397						
-.389	.0000	.0000	-.0130			
-.344						
-.336				.0000	.0000	
-.291				-.0170		.0000
-.266						
-.251	.0270	.0830				
-.241			-.0080			.0300
-.230						
-.225				-.0140	.0150	
-.198						
-.168						.0070
-.133						
.000	-.0970	-.2900	.0740	-.0010	.0050	.0050
.000		-.2900	.0740	-.0010		-.0030
.133						
.168			-.3940	.0000	-.0020	
.198						
.225				.0000		
.230						-.0290
.241		-.5410				
.251	.0700					
.266						.0000
.291				-.0600	.0050	
.336			.2180		.0000	
.344						
.399	.1160	.2390		.0000		
.397						
.418						
.434						
.449						
.482	.0000	.0000	.0000			
.502						

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (SUFA06)

MACH (1) = 1.202   BETA (2) = -3.051

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0130					
-.434		.0130				
-.418						
-.397			.0080	.0000		
-.389				-.0090		
-.344					.0000	
-.336					-.0080	
-.291						.0000
-.266						
-.251	.0010					
-.241		.0490				.0340
-.230						
-.225			-.0130	-.0080	.0240	.0070
-.198						
-.168					.0100	.0010
-.133			-.0030	-.0100		-.0020
-.000	-.1460	-.3170	-.0030	-.0100	.0260	
.000		-.3170				
.133						
.168				-.0470		
.198						
.225			-.4690			-.0340
.230						
.241	.2400	-.3530				
.251					.0170	.0000
.266					.0000	
.291				.1710		
.336						
.344			.2200			
.389				.0000		
.397						
.418		.1340				
.434	.2530					
.449			.0000			
.482		.0000				
.502	.0000					

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL 714-053 (1A36)

CAL 714-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = 1.202　　BETA (3) = .000

SECTION (1)UPPER MPS NOZZLE　　DEPENDENT VARIABLE DELCP

Y/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0180	.0170				
-.434				.0000		
-.418			-.0040	.0000		
-.397					.0000	
-.389					-.0070	
-.344						.0000
-.335						
-.291						
-.265	.0000	.0210			.0340	
-.251			-.0010	.0800		
-.241						
-.230					.0000	.0110
-.225						
-.198						
-.168	-.1050	-.3350	-.0470	-.0020	.0020	.0000
-.133		-.3350	-.0470	-.0020		.0000
-.000					.0000	
.133				-.0080		
.168			-.2330			-.0260
.198						
.225	.0000	-.0730				
.230					.0400	.0000
.241				.0000	.0000	
.251						
.266				.0000		
.291			.0000			
.336	.5100					
.344						
.389	.0000	.0000				
.397						
.418						
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (SURFACE)

MACH (1) = 1.203   BETA (4) = 3.051

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELC:

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449	0090		.0000			
-.434		.0080				
-.418				.0000		
-.397			-.0310			
-.383				-.0130		
-.344					.0000	
-.336					-.0180	
-.291						.0000
-.268						.0310
-.251	-.0600					
-.241		.0130				
-.230			-.0360			
-.225				-.0210		
-.198					.0180	
-.168						-.0020
-.133	-.1330					
-.000		-.2750	-.2130	-.0310	.0050	.0000
-.000		-.2750	-.2130	-.0310		.0150
.133					-.0310	
.168			.0740			
.198				-.0240		
.225						-.0270
.230						
.241		.4740				
.251	.8100					
.266				.7420		
.291					.0560	.0000
.336					.0000	
.344			.0780			
.389		.0560				
.397				.0000		
.418	.6900					
.434						
.449		.0000	.0000			
.482						
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (SUFA06)

MACH (1) = 1.203   BETA (5) = 6.079

SECTION (1) UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000		
-.482						
-.449	.0010	-.0060	-.0360	-.0200		
-.434						
-.418						
-.397					-.0000	.0000
-.389				-.0200	-.0250	
-.344						
-.336	-.0520	-.0400	-.0430	-.0370		.0300
-.291					.0140	.0020
-.266						
-.251	-.1560	-.1990	-.2600	-.0240	.0000	-.0020
-.241		-.1930	-.2600	-.0240		.0150
-.230					-.0340	
-.225				-.0450		
-.198			.1330			-.0270
-.168						
-.133	1.0910	.9210			.1010	.0000
-.000				.8750	.0000	
.133		.1160	.1270	.0000		
.168	.8700					
.198						
.225	.0000	.0000	.0000			
.502						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

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CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

(SUFA07) (18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF =	90.7000 INCHES	YMRP = .0000 INCHES
BREF =	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE =	.0190 SCALE	

PARAMETRIC DATA

BETA =	.000	POWER =	1.000
CPR =	28.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) = 1.199   ALPHA (1) = -8.108

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

Z/OE	X/OE .0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000	.0000	.0000			
-.482						
-.449	-.0310	-.0010				
-.434				.0000		
-.418			-.0060			
-.397				-.0230	.0000	
-.389					-.0230	.0000
-.344						
-.336						
-.291						
-.266	-.0450	.1610				.0090
-.251						
-.241			-.0380	-.0440	-.0150	-.0010
-.230						
-.225	-.0200	-.3560	-.0280	-.0050	-.0030	.0120
-.198		-.3560	-.0290	-.0050		.0060
-.168				.0680		
-.133			-.4450	-.0480		.0080
-.000	.9760	-.1170				
.060						
.133						
.168				.0900	.0000	
.198			.1150	.4790	.0030	
.225				.0000		
.230	.5210	.0260				
.241		.0000				
.251						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 (1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (SUFA07)

MACH (1) = 1.199   ALPHA (1) = -8.128

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
.502   .0000

MACH (1) = 1.198   ALPHA (2) = -4.07.

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
-.502   .0000   .0000   .0000
-.482
-.449
-.434   -.0190   -.0200
-.418
-.397   -.0170   .0000
-.389   -.0340   -.0000
-.364   -.0330
-.336
-.291
-.266   -.0780   .0970   .0000
-.251
-.241
-.230   -.0600   -.0300   .0190   .0250
-.225
-.198
-.168   .0180
-.133
-.000   -.0940   -.3310   .0150   -.0110   .0020   .0170
-.000   -.3310   .0150   -.0110   .0020   .0100
.133
.168   .0070   .0380
.198
.225
.230   -.0180
.241   -.1920   -.1240
.251   .0590
.266   .0480   .0600   .0000
.291   .0000
.330
.344   .5750
.389   .1680
.397   .0000
.418
.434
.649   .0480   .0000

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

(SUFA07)

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = 1.198   ALPHA (2) = -4.075

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/UE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE						
.482						
.502	.0000	.0000				

MACH (1) = 1.197   ALPHA (3) = -.025

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE	.0580	.2320	.4060	.5800	.7540	.9280
-.502		.0000				
-.482						
-.449	-.0050		.0000			
-.434						
-.418		-.0330				
-.397						
-.389				.0000		
-.344			-.0280			
-.336				-.0350		
-.291					.0000	
-.266					-.0330	
-.251						.0000
-.241	-.0990	.0690				
-.230						
-.225			-.0590			.0250
-.198				-.0340		
-.168					.0130	.0270
-.133	-.0910	-.3300	-.0280	-.0220		
-.000		-.3300	-.0280	-.0220	.0040	.0310
-.133					.0450	-.0130
-.168				.0210		
-.198			-.2540			
-.225						
-.230						
-.241	.6220	-.1800			-.0120	
-.251						
-.266						
-.291					.0240	.0000
-.336				.5640	.0000	
-.344						
-.389		.1850				
-.397				.0000		
-.418						
-.434	.5070	.1400				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   (SUFA07)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = 1.197 ALPHA (3) = -.023

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.449						
.482		.0000				
.502	.0000					

MACH (1) = 1.196 ALPHA (4) = 4.017

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449	.0040		.0000			
-.434		.0500				
-.418						
-.397			.0490	.0000		
-.389						
-.344			-.0270			
-.335					.0000	
-.291					-.0220	
-.266						.0000
-.251	-.0760					
-.241		.0000				
-.230						.0000
-.225				.0000		
-.198					.0000	
-.168		.0000				
-.133	-.0290	-.2530	-.0270	.0000	.0080	.0260
-.000	-.0290	-.2530	-.0270	.0000		.0200
-.000					.0000	-.0210
-.133					.0000	
-.168				.0070		
-.198						
-.225			-.2050			
-.230						.0000
-.241		.4960				
-.251		.0000				.0000
-.266					.0000	
-.291						
-.336					.0310	
-.344				.4570	.0000	
-.389			.0150			
-.397			.0000			
-.418		.0400				

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE (SUFA07)

MACH (1) = 1.196 ALPHA (4) = 4.017

SECTION (1) UPPER MPS NOZZLE DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.434	.4560					
.449		.0000				
.482	.0000					
.502						

MACH (1) = 1.200 ALPHA (5) = 6.028

SECTION (1) UPPER MPS NOZZLE DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0300		.0690			
-.434						
-.418						
-.397			.0470	.0000		
-.389				.0040		
-.344						
-.336					.0000	
-.291					-.0370	
-.266						.0000
-.251	-.0510	.0000				
-.241						
-.230						.0000
-.225			.0000	-.0150		
-.198						
-.168					.0000	-.0110
-.133						
-.000	.0100	-.2140	-.0050	.0000	.0150	.0250
		-.2140	-.0050	.0000		.0190
.133						
.168				.0190	.0000	
.198						
.225			-.1970			
.230		.0000				.0000
.241						
.251	.3990					
.266						
.291					.0410	
					.0000	
.336						
.344				.3720		
.389			-.1950			
.97				.0000		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 Q2 + T1 + S1 UPPER MPS NOZZLE   (SUFA07)

MACH (1) = 1.200   ALPHA (5) = 6.028

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE

.418						
.434	.4900	-.1450				
.449						
.482	.0000	.0000	.0000			
.502	.0000					

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE

REFERENCE DATA   (SUFA08)   (18 DEC 73)

							PARAMETRIC DATA		
SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES	ALPHA	=	.000	POWER = 1.000
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES	OPP	=	26.3.0	SRMFR = 2.020
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES	GP1	=	11.000	GY1 = -9.000
SCALE	=	.0190 SCALE				GP2	=	.000	GY2 = -9.000
						GP3	=	.000	GY3 = -9.000

MACH (1) =   1.194   BETA (1) =   -6.074

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DEL.CP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449						
-.434	.0230	.0430				
-.418						
-.397			-.0100	.0000		
-.389				-.0420	-.0290	
-.344					-.0000	
-.336						
-.291						.0000
-.266						
-.251	.0340	.1030				
-.241			-.0510	-.0300	-.0230	.0210
-.230						
-.225						.0080
-.198				.0100	.0040	.0020
-.168	.0830	-.3020	.1040	.0100		-.0200
-.133		-.3020	.1040		-.0240	
-.000				.0290		
-.000			-.4370			.0180
.198						
.225						
.230	.0320	-.5300				.0000
.241				-.0320		
.251				.0000		
.266						
.291			.0730	-.0710		
.336				.0000		
.344	.1250	.0000	.0000			
.389						
.397						
.418		.0000				
.434						
.449						
.402						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + i1 + S1 UPPER MPS NOZZLE   (SUFA08)

MACH (1) = 1.194   BETA (1) = -6.074

SECT (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
.502	.0000					

MACH (1) = 1.194   BETA (2) = -3.044

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE

Z/DE						
-.502	.0000	.0000				
-.482						
-.449	-.0110	.0020				
-.434						
-.418			-.0070	.0000		
-.397						
-.389				-.0490	.0000	.0000
-.344					-.0370	
-.336						
-.291	.0160	.0000				
-.266						.0000
-.251						
-.241			.0000	-.0250	.0000	-.0060
-.230						
-.225	-.0120	-.3180	.0610	.0000	.0010	.0080
-.198		-.3180	.0610	.0000	.0000	-.0110
-.168				.0460	.0000	
-.133			-.5050			.0000
-.000	.1980	.0000				
-.000					.0330	.0000
.133				.2310	.0000	
.168		.1970				
.198				.0000		
.225	.2600	.1480				
.230			.0000			

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36)

(SUFACB)

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CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = 1.194 BETA (2) = -3.044

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.482	.0000					
.502						

MACH (1) = 1.199 BETA (3) = .000

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0130	-.0180				
-.434						
-.418				.0000		
-.397		-.0190				
-.389			-.0450			
-.344					.0000	
-.336					-.0510	
-.291						.0000
-.266						
-.251	-.0970	.0920				
-.241			-.0470			.0260
-.230				-.0480		
-.225					.0010	.0220
-.198						
-.168				-.0200	-.0030	.0120
-.133			-.0180	-.0200		-.0190
-.000	-.0630	-.3410	-.0180		.0530	
-.000		-.3410		.0V30		
.168						.0070
.198			-.2470			
.225						
.230						.0000
.241	.6220	-.2720		.0470		
.251				.0000		
.266						
.291						
.336			.5820			
.344		.1270				
.389			.0000			
.397	.5010	.1510				
.418						
.434						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

                        CAL T14-053 IA36 U2 + T1 + S1 UPPER MPS NOZZLE   (SUFA08)

MACH (1) = 1.199   BETA (3) = .000

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4050	.5800	.7540	.9280

Z/DE
.449						
.482	.0000	.0000				
.502	.0000					

MACH (1) = 1.195   BETA (4) = 3.049

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
-.502	.0000	.0000	.0000			
-.482						
-.449	-.0220	-.0410				
-.434						
-.418			-.0480	.0000		
-.397				-.0300		
-.389					.0000	
-.344					.0290	
-.336						.0000
-.291						
-.266	-.0540	-.0090				
-.251			-.0350	.0580		
-.210					.0080	.0280
-.205						
-.199					.0290	.0290
-.164	-.1850	-.2230	-.0850	-.0290	.0120	.0100
-.133		-.2230	-.0850	-.0290	.0200	-.0130
.000						
.133				-.0300		-.0110
.163		.0640				
.198						
.225	.9350	.0980				
.230						
.241				.7370	.0280	.0000
.251					.0000	
.266		.0280				
.291			.0000			
.336	.0700					
.344						
.389						
.397						
.418						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

(SUFA08)

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE

MACH (1) = 1.195   BETA (4) = 3.049

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
.434	.6860					
.449		.0000				
.482		.0000				
.502	.0000					

MACH (1) = 1.197   BETA (5) = 6.079

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

X/DE	.0590	.2320	.4060	.5800	.7540	.9280

Z/DE
-.502	.0000	.0000				
-.482		.0000	.0000			
-.449	-.0710					
-.434		-.0430				
-.418						
-.397			-.0420	.0000		
-.389				-.0350		
-.344					.0000	
-.336					-.0260	
-.291						
-.266						.0000
-.251	-.0690	-.0150				
-.241						.0270
-.230			-.0130	-.0160		
-.225						
-.198					.0160	-.0200
-.168						
-.133	-.2490	-.1630	-.3000	-.0230	.0010	.0080
-.000		-.1630	-.3000	-.0230		-.0320
.133					.0170	
.168			-.0740			
.198						
.225		.1210				
.230						.0000
.241	1.2420	.5700				
.251						
.266						.0000
.291					.0450	
.336					.0000	
.344			.8670			
.309			.0780			
.397			.0000			

DATE 05 NOV 75

TABLATED DATA FOR CAL T14-053 (:A36)

CAL T14-053 IA36 02 + T1 + S1 UPPER MPS NOZZLE   (SUFA08)

MACH (1) =   1.197   BETA (5) =   6.079

SECTION (1)UPPER MPS NOZZLE   DEPENDENT VARIABLE DELCP

A/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE

.4:8	.8980	.1250				
.434						
.449						
.482	.0000	.0000	.0000			
.502						

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF =	90.7000 INCHES	YMRP = .0000 INCHES
BREF =	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE =	.0190 SCALE	

(SUFB01)   (18 DEC 73)

PARAMETRIC DATA

BETA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GF3 =	.000	GY3 =	.000

MACH (1) = .901   ALPHA (1) = -8.088

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000		
-.482						
-.449	.0130	-.0180				
-.434						
-.418		.0030	.0000			
-.397						
-.369			-.0150			
-.344				.0000		
-.336				-.0260	.0000	
-.291						
-.266	.0220	.0150			.0300	
-.251			-.0220			
-.241				-.0230	.0130	-.0080
-.230						
-.225	-.0010	-.0070	.0050	-.0020	-.0090	.0090
-.198		-.0070	.0050	-.0020		.0060
-.168				.0170	-.0110	
-.133			.0390			
-.000	-.0050	-.0010			-.0920	
.000						
.133				.0130	.0000	
.168			.0140	.0000		
.198	-.0100	.0090	-.0030			
.225						
.230	.0000	.0000				
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.   (SUFB01)

MACH (1) = .900   ALPHA (2) = -4.049   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502						
-.482	.0000	.0000	.0000			
-.449	.0070	.0030				
-.434			.0020	.0000		
-.418						
-.397				-.0270		
-.369					.0000	
-.344					-.0200	.0000
-.336						
-.291						
-.266	.0090	.0160				.0260
-.251			-.0260	-.0200		
-.241					-.0010	-.0170
-.230						
-.225	.0020	.0010	.0100	.0030	-.0130	-.0040
-.198		.0010	.0100	.0030	-.0100	-.0040
-.168						
-.133				.0060		
-.000			.0270			-.0210
.133						
.168						
.198						
.225						
.230	-.0030	-.0110				
.251				.0150	.0240	.0000
.266				.0000	.0000	
.291						
.336			-.0110			
.344	.0040	-.0010				
.389						
.397						
.418						
.434	.0000	.0000	.0000			
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A35 O2 + T1 + S1 LOWER LH MPS NOZ.   (SUFB01)

MACH (1) = .900   ALPHA (3) = .013

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0250					
-.434		-.0130				
-.418			.0000	.0000		
-.397						
-.389			.0000	-.0210		
-.344					-.0200	
-.336					.0000	
-.291						
-.266	.0230					.0000
-.251		.0160				.0300
-.241			-.0280	-.0130		
-.230					.0210	-.0050
-.225						
-.198	.0080	.0100	.0200	.0000	.0040	.0080
-.168		.0100	.0200	.0000		.0210
-.133					-.0060	
-.000			.320	.0160		
.000						-.0330
.133						
.168						
.198						
.225						
.230						
.241	.0110	-.0140				
.251					.0300	.0000
.266				.0230	.0000	
.291						
.336			-.0070	.0000		
.344						
.389		.0070				
.397						
.418	-.0040					
.434						
.449		.0000	.0000			
.482	.0000					
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (:A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (SUFBO1)

MACH (1) = .899   ALPHA (4) = 4.005

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.2250					
-.434		-.0040				
-.418			.0030	.0000		
-.397				-.0300		
-.389					.0000	
-.344					-.0120	
-.336						.0000
-.291						
-.266	.0550					
-.251		.0190				.0330
-.241			-.0040	-.0140		
-.230					.0060	.0040
-.225						
-.198						
-.168	.0080	-.0030	.0000	-.0010	.0080	.0040
-.133		-.0030	.0000	-.0010		.0090
.000					-.0090	
.133			.0370	.0340		
.168						-.0320
.198						
.225	-.0030	-.0100			.0340	.0000
.230					.0000	
.241				.0340		
.251			-.0010	.0000		
.266	-.0040	.0010				
.291						
.336	.0000	.0000	.0000			
.344						
.389						
.397						
.418						
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)   (SUFB01)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) = .899   ALPHA (5) = 6.006

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE CLCP

X/OE	.0580	.2320	.4060	.5800	.7540	.9280
Z/CE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0110					
-.434		-.0240				
-.418			.0260	.0000		
-.357						
-.389				-.0100		
-.344					.0000	
-.336					-.0150	
-.291						.0000
-.266	.0200	.0290				
-.251						.0420
-.241			-.0240	.0050	.0310	
-.230						-.0160
-.225						
-.198	.0070	.0040	.0010	.0150	.0070	-.0020
-.168		.0040	.0010	.0150		.0340
-.000						
-.000				.0130	-.0200	
-.133			.0570			
-.168						-.0580
-.198						
-.225	-.0060	-.0110				
-.230					.0320	.0600
-.241				.0220	.0000	
-.251			-.0240	.0000		
-.266						
-.291	.0150	.0190				
-.336						
-.344						
-.339						
-.397						
-.418	.0000	.0000	.0000			
-.434						
-.449						
-.482						
-.502						

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.

(SUFB02) (18 DEC 73)

REFERENCE DATA		PARAMETRIC DATA	
SREF = 49.4000 SQ.FT.	XMRP = 159.0000 INCHES	ALPHA = .000	POWER = .000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES	GP1 = 11.000	GY1 = -9.000
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES	GP2 = .000	GY2 = -9.000
SCALE = .0190 SCALE		GP3 = .000	GY3 = .000

MACH (1) = .901   BETA (1) = -6.079

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0110	-.0110				
-.434						
-.418			.0160	.0000		
-.397						
-.389				-.0310		
-.344					-.0000	
-.336					-.0260	
-.291						.0000
-.266	.0240	.0210				
-.251						.0220
-.241			-.0360	-.0030		
-.230					.0080	-.0080
-.225						
-.198						
-.168	.0010	-.0070	-.0040	-.0060	.0100	.0070
-.133		-.0070	-.0040	-.0060		.0220
-.000				.0140	-.0050	
-.000			.0260			
.133						-.0170
.168	-.0290	-.0260				
.198					.0080	.0000
.225				.0330	.0000	
.230			-.0110			
.241	-.0040	-.0010		.0000		
.251	.0000	.0000	.0000			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(SUFB02)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) = .900   BETA (2) = -3.049

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502						
-.482	.0000	.0000				
-.449			.0000			
-.434	.010C	-.0140				
-.418			.0000	.0000		
-.397						
-.389			-.0040	-.0200		
-.344					.0000	
-.336					-.0150	
-.291						.0000
-.266						
-.251	.0110	.0070				.0240
-.241						
-.230			-.0270	-.0130		
-.225					.0100	
-.198						-.0100
-.168				.0060	.0060	
-.133			-.0050	.0060		.0160
-.000	-.0040	-.0060	-.0050		-.0100	.0170
-.000		-.0060				
.133						
.168				.0180		
.198			.0410			-.0260
.225						
.230						
.241	-.0080	.0000	.0000			
.251					.0220	.0000
.266					.0000	
.291				.0140		
.336						
.344			.0060			
.389				.0000		
.397						
.418	-.0030	.0180				
.434						
.449			.0000			
.482	.0000	.0000				
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (SUFB02)

MACH (1) = .901   BETA (3) = .000

SECTION ( ) LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0220					
-.434		.0050				
-.418			.0000			
-.397						
-.389			.0000	-.0220		
-.344				-.0220		
-.336						
-.291					-.0000	
-.266					-.0140	.0000
-.251	.0300	.0150				
-.241						.0300
-.230						
-.225		-.0310	-.0110			
-.198			.0060			
-.168						
-.133						.0000
-.000	.0070	-.0030	.0010	-.0070	-.0010	.0100
-.000		-.0030	.0010	-.0070		.0050
.133				-.0060		
.168						
.198		.0390	.0190			
.225						
.230						
.251	-.0050	-.0040			-.0330	
.266						.0000
.291						
.336				.0170		
.344		.0050	.0270	.0000		
.389		.0000	.0000			
.397						
.418	-.0050	.0080				
.434						
.449	.0000	.0000				
.482						
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (SUFB02)

MACH (1) = .900   BETA (4) = 3.051

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449	.0160					
-.434		-.0160				
-.418			.0070	.0000		
-.397						
-.389				-.0190		
-.344					.0000	
-.336					-.0090	
-.291						.0000
-.266	.0160					
-.251		.0130				.0310
-.241			-.0290			
-.230				-.0070	.0150	
-.225						-.0050
-.198						
-.168				.0040	.0040	-.0040
-.133	.0180	-.0070	-.0020	.0040		.0140
-.000		-.0070	-.0020		-.0100	
.000				.0150		
.133						
.168			.0320			-.0250
.198						
.225						
.230	.0020	-.0020				
.241					.0220	
.251					.0000	.0000
.266				.0180		
.291			-.0050			
.336				.0000		
.344						
.389	.0050	.0130				
.397			.0000			
.418	.0000	.0000				
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (SUFB02)

MACH (1) = .901   BETA (5) = 6.089

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502						
-.482	.0000	.0000	.0000			
-.449	.0000					
-.434	.0000		-.0230			
-.418	.0090	.0060	.0000			
-.397						
-.389				.0270		
-.344				.0000	.0080	.0000
-.336		.0080			.0000	
-.291						
-.266	.0040		.0240			-.0120
-.251				-.0010		
-.241					.0030	
-.230				.0040	-.0060	.0190
-.225	.0230	.0060	.0110	.0040	-.0060	-.0040
-.198		.0060	.0110			-.0100
-.168					.0110	
-.133			-.0010	-.0010		
-.000		.0100	-.0200			.0330
-.133	.0340					
-.168				-.0030		.0000
-.198				-.0280		
-.225			-.0030	.0000	-.0030	
-.230				.0000	.0000	
-.241						
-.251			.0000			
-.206	.0000	-.0120				
-.291	.0000		.0000			
-.336						
-.344						
-.389						
-.397						
-.418						
-.434						
-.449						
-.482						
-.502						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

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CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

(SUFB03)   (18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	POWER =	1.000
OPR =	36.200	SRMPR =	2.330
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) =   .897   ALPHA (1) =   -8.088

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0540	-.0520				
-.434						
-.418			.0000	.0000		
-.397						
-.389		-.0040	-.0090			
-.344				.0000	.0000	
-.336				-.0060		
-.291						
-.266	.0330	.0100				.0670
-.251			-.0590	-.0270	.0560	.0200
-.241						
-.230						
-.225						
-.198						
-.168	-.0120	.0070	-.0060	-.0020	.0030	.0010
-.133		.0070	-.0060	-.0020		-.0120
-.000			.0690	.0290	-.0550	
.000						
.133						
.168	-.0080	-.0110				-.0620
.198				-.0010		
.225			.0140	.0000	.0000	.0000
.230						
.241		.0430		.0150		
.251	-.0150			.0000		
.266		.0000	.0000			

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + 1I + S1 LOWER LH MPS NOZ. (SUFB03)

MACH (1) = .897 ALPHA (1) = -8.088

SECTION (1) LOWER LH MPS NOZ. DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
.502 .0000

MACH (1) = .899 ALPHA (2) = -4.038

SECTION (1) LOWER LH MPS NOZ. DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5600	.7540	.9280

Z/DE						
-.502		.0000	.0000			
-.452						
-.449	.0390	.0310	.0000			
-.434						
-.418						
-.397				.0000		
-.389			-.0150	-.0160		
-.344					.0000	
-.336					.0010	.0000
-.291						
-.266						
-.251	.0410	.0070	.0020	-.0140	-.0040	.0160
-.241						
-.230						
-.225						
-.198						
-.168	-.0150	.0120	.0050	.0140	.0070	.0200
-.133		.0120	.0050	.0140	.0070	.0080
-.000					.0140	-.0230
-.000						
.133			.0050	.0150		
.168						
.198						
.225						
.230						
.241	-.0190	-.0030			-.0060	
.251						
.266						
.291				.0060	.0000	
.336				.0000		
.344		.0120	.0240			
.389			.0000			
.397						
.418						
.434	-.0190	-.0190	.0000			
.449						

CAL T14-053 (1A36 02 + T1 + S1 LOWER LH MPS NOZ.   (SUFB03)

MACH (1) =   .899   ALPHA (2) =   -4.038   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE

Z/DE	.0580	.2320	.4060	.5800	.7540	.9280
.482	.0000					
.502	.0000					

MACH (1) =   .901   ALPHA (3) =   .001   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE

Z/DE	.0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000	.0000	.0000			
-.482	.0400	.0000				
-.449						
-.434	.0300	.0000				
-.418						
-.397						
-.389		-.0120	-.0080			
-.344						
-.336				.0000		
-.291				-.0100		
-.266						.0000
-.251	.0200	.0220				
-.241						.0090
-.230						
-.225		.0120				
-.198		-.0210	.0000			.0120
-.168						
-.133						
-.000	-.0040	-.0030	.0040	.0050		.0080
-.000		-.0030	.0040	.0100		-.0120
-.133						
-.168			.0220			
-.198						
-.225						
-.230						-.0020
-.241	-.0040					
-.251						
-.266						
-.291		-.0040	.0000			
-.336				.0000		.0000
-.344						
-.389		.0090	.0090			
-.397						
-.418		-.0190	.0000			
-.434	-.0410					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-C53 !A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (SUFB03)

MACH (1) = .901   ALPHA (3) = .001   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NUZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.449						
.482		.0000	.0000			
.502	.0000					

MACH (1) = .902   ALPHA (4) = 4.026   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000		
-.482						
-.449	.0370	.0330				
-.434			-.0100	.0000		
-.418				-.0210	-.0000	
-.397					-.0070	
-.389						
-.344						
-.336						.0000
-.291	.0410	.0140				
-.266			-.0010	-.0200		.0100
-.251					-.0210	.0170
-.241	.0030	-.0060	-.0050	.0100	.0110	.0020
-.230		-.0060	-.0050	.0100		-.0020
-.225				.0300	.0220	
-.198			-.0050			-.0050
-.168	-.0170	-.0150				
-.133				.0180	.0100	.0000
-.000			.0020	.0000	.0000	
-.000		-.0260				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

(SUFB03)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) = .902   ALPHA (4) = 4.026

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/OE   .0580   .2320   .4060   .5800   .7540   .9280

Z/OE
.42:   -.0160
.449   .0000
.482   .0000
.502   .0000

MACH (1) = .898   ALPHA (5) = 6.021

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/OE   .0580   .2320   .4060   .5800   .7540   .9280

Z/OE
-.502   .0000   .0000   .0000
-.482
-.449   .0290   -.0300
-.434
-.418   -.0040 .0000
-.397
-.389   .0200   .0600
-.344   -.0040
-.336
-.291
-.266   -.0010 .0060   .0000
-.251
-.241
-.230   -.0380 -.0200   .0350
-.225
-.198
-.168   .0440   .0110
-.133
-.000   .0030   -.0100 .0040   .0030   .0040   .0000
-.000   -.0100 .0040   .0030   .0000   -.0070
.133
.168   .0170
.198
.225   .0290
.230
.230   -.0110   -.0370
.142
.251   .0810
.266
.291   .0150   .0000
.336   .0000
.344
.389   -.0150
.397   .0030   .0000

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NCZ.   (SUFBC3)

MACH (1) = .898   ALPHA (5) = 6.021

SECTION ( ) LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.418						
.434	-.0080	.0330				
.449						
.482	.0000	.0000	.0000			
.502						

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

(SUFB04)   (18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF =	90.7000 INCHES	YMRP = .0000 INCHES
BREF =	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE =	.0190 SCALE	

PARAMETRIC DATA

ALPHA =	.000	POWER =	1.000
OPR =	56.200	SRMPR =	2.770
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) =   .899   BETA (1) = -6.078

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0390	-.0010				
-.434						
-.418			-.0160	.0000		
-.397						
-.389				-.0270	-.0160	
-.344					.0000	
-.336						.0000
-.291						
-.266	-.0070	.0110				
-.251			-.0260	-.0300	.0070	.0250
-.241						
-.230						.0100
-.225				.0010	-.0090	-.0020
-.198	.0430	.0150	.0090	.0010		-.0070
-.168		.0150	.0090		.0030	
-.133						
.000			.0060	.0160		
.133						-.0240
.168						
.198						
.225						
.230						
.241	-.0050	-.0150				
.251						
.266						.0000
.291				.0170		
.336				.0000		
.344						
.389			.0040			
.397	-.0170	-.0110				
.418						
.434						
.449		.0000	.0000			
.482						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 363

(SUFB04)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) = .999   BETA (1) = -6.078

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
.502 .0000

MACH (1) = .900   BETA (2) = -3.049

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + T1 + S1 LOWER LH MPS NOZ. (SUFB04)

MACH (1) = .900 BETA (2) = -3.049 DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.482	.0000					
.502	.0000					

MACH (1) = .899 BETA (3) = .000 DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000		
-.482						
-.449	-.0330	.0000	.0000			
-.434						
-.418	.0000	.0030	.0030			
-.397						
-.389			-.0100	.0000		
-.344				-.0220	-.0000	
-.336					-.0070	
-.291						.0000
-.266	.0190	.0130				
-.251						.0320
-.241						
-.230			-.0150	-.0250		
-.225					.0080	.0160
-.198						
-.168	.0000	-.0090	-.0050	.0090		
-.133	-.0090	-.0090	-.0050	.0030	-.0020	.0030
-.000					-.0050	-.0170
.000			.0130	.0200		
.133						
.168						
.198						-.0300
.225	-.0330	-.0170				
.230						
.241						
.251					.0070	.0000
.266				.0090	.0000	
.291						
.336						
.344			.0060			
.389		.0090				
.397			.0000			
.418						
.434	-.0110					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(SUFB04)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) = .899   BETA (3) = .000

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.3280

Z/DE
.449	.0000					
.482	.0000					
.502	.0000					

MACH (1) = .898   BETA (4) = 3.051

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
-.502	.0000	.0000	.0000			
-.482						
-.449	.0360	-.0020				
-.434						
-.418						
-.397			-.0250	.0000		
-.389						
-.344				-.0320		
-.336					.0000	
-.291					.0060	
-.266						.0000
-.251	.0350	-.0120				
-.241						.0300
-.230						
-.225			-.0370	-.0150	-.0130	.0230
-.198						
-.168						
-.133						
-.000	-.0190	-.0100	-.0070	-.0020	.0020	.0020
.000		-.0100	-.0070	-.0020	.0020	-.0180
.133					.0140	
.168						
.198				.0170		
.225			.0270			
.230						-.0270
.241		-.0070				
.251	-.0550					
.266					-.0030	.0000
.291					.0000	
.336				.0390		
.344			.0180			
.389						
.397	-.0190		.0000			
.418						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (SUFB04)

MACH (1) = .898   BETA (4) = 3.051

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9260

Z/DE

.434	-.0260				
.449			.0000		
.482	.0000				
.502	.0000				

MACH (1) = .899   BETA (5) = 6.088

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE

-.502	.0000	.0000			
-.482			.0000		
-.449	.0440	.0090			
-.434					
-.418			.0000		
-.397			-.0260		
-.389				-.0310	
-.344				.0000	
-.336				.0030	
-.291					.0000
-.276					
-.251	.0270	-.0120			
-.241					.0190
-.230			-.0270		
-.225				-.0220	.0250
-.198				-.0170	
-.168					
-.133	-.0380	-.0310	-.0220	-.0090	-.0050
-.000		-.0310	-.0220	-.0090	-.0210
.133				.0020	
.168				.0070	
.198			.0080		
.225			.0030		
.230	-.0300	.0040			-.0190
.241					
.251					.0000
.266				-.0150	
.291				.0000	
.336			.0100		
.344		.0140			
.389			.0000		
.397					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (SUFB04)

MACH (1) =   .899   BETA (5) =   6.088

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.418	-.0220	-.0320				
.434						
.449		.0000				
.482	.0000					
.502	.0000					

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

(SUFB05)   (18 DEC 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.
LREF	=	90.7000 INCHES
BREF	=	90.7000 INCHES
SCALE	=	.0190 SCALE

XMRP	=	158.0000 INCHES
YMRP	=	.0000 INCHES
ZMRP	=	.0000 INCHES

PARAMETRIC DATA

BETA	=	.000		POWER	=	.000
GP1	=	11.000		GY1	=	-9.000
GP2	=	.000		GY2	=	-9.000
GP3	=	.000		GY3	=	.000

MACH (1) =   1.203   ALPHA (1) =   -8.101

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DFLCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.447						
-.434	.0170					
-.418		-.0140				
-.397			.0100	.0000		
-.389						
-.344				.0010		
-.335					.0000	
-.291					-.0190	
-.266						.0000
-.251	-.0040					
-.241		.0090				
-.230						.0060
-.225			-.0170			
-.198				-.0110	.0260	
-.168						-.0020
-.133	-.0020	-.0260	-.0100	.0120	.0080	.0120
-.000		-.0260	-.0100	.0120		.0250
-.133					-.0040	
.168				.0160		
.198			.0100			
.225						.0020
.230						
.241	.0190	-.0340				
.251					.0240	.0000
.266					.0000	
.291						
.336			-.0090	-.0010		
.344						
.389				.0000		
.397						
.418	.0040	.0200				
.434						
.449			.0000			
.482	.0000	.0000				
.502						

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (SUFB05)

MACH (1) = 1.202   ALPHA (2) = -4.038

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449	.0210		.0000			
-.434		-.0210				
-.418			.0040	.0000		
-.397						
-.389				.0060	.0000	
-.344					-.0160	
-.335						
-.291						
-.266						.0000
-.251	.0010	.0010				
-.241						
-.230			-.0220			.0380
-.225						
-.198				-.0140		
-.168					.0410	.0040
-.133						
-.000	.0090	-.0170	-.0130	.0200	.0160	.0150
.000		-.0170	-.0130	.0200		.0280
.133						
.168				-.0150	-.0150	
.198						
.225			.0280			
.230						-.0050
.241						
.251	-.0250	-.0260				
.266						.0000
.291					.0180	
.336					.0000	
.344				-.0010		
.389			-.0100	.0000		
.397						
.418		.0230				
.434	.0050					
.449			.0000			
.482	.0000					
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (SUFB05)

MACH (1) = 1.203   ALPHA (3) = -.011

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449	.0190					
-.434		-.0270				
-.418			.0000			
-.397				.0000		
-.380			.0130			
-.344				.0010		
-.336					.0000	
-.291					-.0190	
-.266	.0090					.0000
-.251		.0040				.0200
-.241						
-.230			-.0240			
-.225				-.0070	.0430	.0030
-.198						
-.168						
-.133						
-.000	.0090	-.0160	-.0130	.0120	.0160	.0110
.000		-.0160	-.0130	.0120		.0280
.133						
.168					-.0190	
.198				.0120		
.225			.0310			
.230						-.0150
.241		-.0230				
.251	.0230					
.266						
.291					.0160	.0000
.336				-.0050	.0000	
.344			-.0160			
.389				.0000		
.397						
.418		.0260				
.434						
.449	.0100		.0000			
.482		.0000				
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 'OWER LH MPS NOZ.   (SUFB05)

MACH (1) = 1.203   ALPHA (4) = 4.003

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502						
-.482	.0000	.0000		.0000		
-.449	.0190					
-.434		-.0220				
-.418			.0110	.0000		
-.397				.0120		
-.389						
-.344						
-.336						
-.291					-.0000	
-.266					-.0180	
-.251	.0040	.0150				.0000
-.241						
-.230			-.0130			
-.225				-.0060		.0120
-.198					.0470	
-.168						
-.133						.0090
-.000	.0200	-.0110	-.0070	.0180	.0220	.0170
-.000		-.0110	-.0070	.0180	.0220	.0250
.133						
.168				.0140	-.0100	
.198						
.225			.0200			
.230						-.0050
.241						
.251	.0270	-.0230				
.265						
.291						
.336				-.0150	.0220	
.344		.0340	-.0100	.0000	.0000	.0000
.389						
.397						
.418						
.434	.0060					
.449		.0000	.0000	.0000		
.482	.0000					
.502						

CAL T14-053 IA36 02 + T1 + S1 LOWER LH MPS NOZ.   (SUFB05)

MACH (1) = 1.202   ALPHA (5) =   6.016

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449	.0280					
-.434		-.0350				
-.418			.0000			
-.397			.0060			
-.389				.0070		
-.344					.0000	
-.336					-.0160	
-.291						.0000
-.266	.0090					
-.251		.0140				
-.241						.0290
-.230			-.0270			
-.225				-.0160	.0490	.0140
-.198						
-.168						
-.133	.0200	-.0150	-.0070	.0130	.0200	.0160
-.000		-.0150	-.0070	.0130	.0200	.0190
.133					-.0210	
.168				.0250		
.198						
.225						-.0120
.230			.0360			
.241		-.0240				
.251	.0370					
.266					.0190	.0000
.291					.0000	
.335				-.0090		
.344			-.0030			
.389				.0000		
.397						
.418		.0360				
.434	.0070					
.449			.0000			
.482		.0000				
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

(SUFB06)   (18 DEC 73)

REFERENCE DATA

SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES	
LPEF = 90.7000 INCHES	YMRP = .0000 INCHES	
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES	
SCALE = .0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = 1.202   BETA (1) = -6.079

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.492						
-.449	.0130					
-.434		-.0160				
-.418				.0000		
-.397			.0090			
-.389				.0000		
-.344					.0000	
-.336					-.0170	
-.291						.9000
-.266	.0070	.0060				
-.251						.0220
-.241			-.0140			
-.230				-.0060		
-.225					.0330	
-.198						.0000
-.166	.0080	-.0060	-.0110	.0160	.0140	.0200
-.133		-.0060	-.0110	.0160		.0220
-.000				.0100	-.0040	
.000			.0210			
.133						-.0030
.168	.0050	-.0240				
.198						.0000
.225				.0050	.0180	
.230			-.0090	.0000	.0000	
.241	.0080	.0260				
.251			.0000			
.266	.0000	.0000				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 IA36 Q2 + T1 + S1 LOWER LH MPS NOZ.   (SUFB06)

MACH (1) = 1.202   BETA (2) = -3.051

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.5580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000				
-.482						
-.449	.0110	-.0210				
-.434						
-.418			.0160	.0000		
-.397						
-.361				-.0020	.0000	
-.344					-.0140	
-.336						
-.291						
-.266	.0140					.0000
-.251		-.0070				
-.241						.0260
-.230			-.0250	.0030		
-.225					.0340	
-.198						-.0020
-.168			-.0150	.0130	.0180	.0160
-.133	.0070	-.0170	-.0150	.0130		.0250
-.000		-.0170			-.0070	
-.000				.0040		
.133			.0170			
.168						-.0070
.198	.0140	-.0260				
.225					.0010	.0000
.230				-.0030	.0000	
.241			-.0100	.0000		
.251						
.266	.010	.0190				
.291						
.336	.0000	.0000	.0000			
.344						
.361						
.397						
.418						
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (SUFB061)

MACH (1) = 1.202   BETA (3) = .000

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0170	.0000				
-.434						
-.418			.0110	.0000		
-.397				.0000	.0030	
-.383					-.0110	
-.344						.0000
-.336						
-.291	.0000	.0010				.0220
-.265			-.0200	-.0020		
-.251					.0000	.0050
-.241						
-.230	.0100	-.0130	-.0170	.0140	.0170	.0000
-.225		-.0130	-.0170	.0140		.0220
-.198				.0070	.0000	
-.158			.0290			
-.133						-.0170
-.000	.0000	-.0210				
-.000					.0070	.0000
-.133				.0000	.0000	
-.168			-.0080	.0000		
-.198	.0600	.0000				
-.225			.0000			
-.502	.0000					

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CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (SUFB06)

MACH (1) = 1.203   BETA (4) = 3.051

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0020	-.0220				
-.434			-.0110	.0000		
-.418				.0050		
-.397					.0000	
-.389					-.0160	
-.344						.0000
-.335						
-.291	.0090	.0040				.0273
-.265			-.0130	-.0020		
-.251					.0240	.0010
-.241	.0250	-.0050	-.0150	.0180	.0140	.0120
-.230		-.0050	-.0150	.0180		.0320
-.225					-.0190	
-.199			.0290	.0030		
-.168	.0470	-.0380				-.0090
-.133					.0180	.0000
-.000				-.0100	.0000	
.363			-.0120	.3000		
.397	.0060	.0270				
.418	.0000	.0000	.0000			

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 ... LH HPS NOZ.

(SUFB06)

MACH (1) =   1.203   BETA (5) =   6.079

SECTION (1) LOWER LH HPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502						
-.482	.0000	.0000				
-.449						
-.434	.0150	-.0170				
-.418						
-.397			.0000			
-.389		.0090				
-.344			.0040			
-.336				.0000		
-.291				-.0190		
-.266					.0000	
-.251	.0070	.0070				
-.241					.0260	
-.230			-.0150			
-.225				-.0110		
-.198					.0330	.0030
-.168						
-.133						
-.000	.0180	-.0130	-.0240	.0150	.0150	.0150
0.000		-.0130	-.0240	.0150		.0280
.133						
.168				.0080	-.0080	
.198						
.225			.0120			
.230						-.0090
.241	.0430	-.0180				
.251						.0000
.266					.0170	
.291					.0000	
.336				-.0050		
.344			-.0110			
.389				.0000		
.397						
.418	.0000	.0170				
.434						
.449						
.482	.0000	.0000	.0000			
.502						

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

(SUFB07)   18 DEC 73

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP = .0000 INCHES
BREF	=	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE	=	0.190 SCALE	

PARAMETRIC DATA

BETA	=	.000	POWER = -1.000
OPR	=	28.300	SRMPR = -2.000
GP1	=	11.000	GY1 = -3.000
GP2	=	.000	GY2 = -3.000
GP3	=	.000	GY3 = -3.000

MACH (1) = 1.199   ALPHA (1) = -8.108

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.0150	.0100				
-.434						
-.418			.0340	.0000		
-.397				.0270		
-.389					.0000	
-.344					.0030	
-.335						.0000
-.291	-.0140	.0020				
-.265			-.0010	.0070		-.0310
-.251					.0480	.0250
-.241	-.0860	-.0710	-.0470	.0020	.0080	.0050
-.230		-.0710	-.0470	.0020		.0240
-.225				.0010	-.0070	
-.198			.0000			.0150
-.168	.0090	-.0530				
-.133				-.0080	.0280	.0000
-.100			-.0220	.0000	.0000	
-.000	-.0040	.0000				
.000		.0000				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (SUFB07)

MACH (1) = 1.199   ALPHA (1) = -8.108

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
.502   .0000

MACH (1) = 1.198   ALPHA (2) = -4.075

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE

Z/DE	.0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000					
-.482		.0000	.0000			
-.449	.0150		.0110			
-.434						
-.418						
-.397			.0350	.0000		
-.389				.0120		
-.344						
-.336					.0000	
-.291					-.0030	
-.266						
-.251	.0150	.0000				.0000
-.241						
-.230			-.0090			.0070
-.225						
-.198				.0230	.0650	
-.168						
-.133						.0230
-.000	-.0880	-.0570	-.0420	-.0010	.0100	.0100
-.000		-.0570	-.0420	-.0010	.0100	.0110
.133						.0210
.168					-.0180	
.198				-.0070		
.225			.0060			
.230						
.241						-.0100
.251	-.0220	-.0670				
.266						
.291					.0140	.0000
.336					.0000	
.344			.0060			
.389						
.397			-.0170	.0000		
.418		.				
.434	.0050					
4.9	.0040		.0000			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (, 36)   (SUFB07)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) = 1.198   ALPHA (2) = -4.075

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.432	.0000					
.502	.0000					

MACH (1) = 1.197   ALPHA (3) = -.023

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502						
-.482	.0000	.0000				
-.449			.0000	.0000		
-.434						
-.418	.0530	.0290				
-.397			.0240	.0000		
-.383				.0090	.0000	
-.344					.0000	.0000
-.336					.0050	
-.291						.0000
-.266						
-.251	.0230	.0000				
-.241			.0070	.0230		
-.230					.0630	.0070
-.225						.0250
-.198					.0150	
-.168			-.0400	-.0020	.0000	.0000
-.133			-.0400	-.0020	.0040	
-.000	-.0760	-.0610				
.000	-.0760	-.0610				
.133				-.0120	-.0220	
.168			.0040			
.198						
.225						-.0090
.230						
.241		-.0650				
.251	-.0290					
.265					-.0030	.0000
.291					.0000	
.336				.0060		
.344			-.0030			
.389				.0000		
.397		.0000				
.418						
.434	-.0010					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(SUFB07)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) =   1.197   ALPHA (3) =   -.023

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.449						
.482		.0000				
.502	.0000	.0000				

MACH (1) =   1.196   ALPHA (4) =   4.017

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449	.0680	.0000	.0000			
-.434						
-.418			.0510	.0000		
-.397				.0120		
-.389					.0000	
-.344					.0080	.0000
-.336	.0550	.0010				
-.291			.0000	.0440	.0000	.0000
-.266			.0000	.0000		
-.251	-.1260	-.0550	-.0460	.0000	.0000	.0000
-.241		-.0550	-.0460	.0090	.0110	
-.230					.0360	
-.225			.0000	-.0300	.0000	.0000
-.198						
-.168	-.0340	-.0580	.0000		.0000	.0000
-.133			-.0460	.0130	.0140	
-.000			-.0460	.0000	.0000	
-.000		.0000				

DATE 05 NOV 75　　　TABULATED DATA FOR CAL T14-053 (1A36)　　　　　　　　　PAGE 392

CAL T14-053 (A36 22 + T1 + S1 LOWER RH MPS NOZ.　　(SUFCO1)

MACH (1) = .900　　ALPHA (3) = .013

SECTION (1)LOWER RH MPS NOZ.　　DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.266						.0000
-.251	-.0050					
-.241		.0410				
-.225			-.0040	-.0630		
-.198						
-.168					-.0350	-.0050
-.133						
-.000	.1460	.3760	.2990	.0250		
-.000		.3760	.2990	.0250	-.0120	-.0110
.133						-.0110
.168					-.0480	
.198			.1610	-.0020		
.225						
.230						-.0350
.241		.4780				
.251	.3370					
.266						.0000
.291					.0140	
.335				.0230	.0000	
.344			.0070			
.389				.0000		
.397						
.418						
.434	.0510	-.0100				
.449						
.482		.0000	.0000			
.502	.0000					

MACH (1) = .899　　ALPHA (4) = 4.005

SECTION (1)LOWER RH MPS NOZ.　　DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000	.0000	.0000
-.482						
-.449						
-.397						
-.336						
-.266						
-.251	.0210	.0760	.0030	-.0550		
-.241						
-.225						
-.198						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.   (SUFB07)

MACH (1) =   1.200   ALPHA (5) =   6.028

SECTION (1)LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE   .0580   .2320   .4060   .5800   .7540   .9280

Z/DE
  .418
  .434   .0090   .0000
  .449
  .482   .0000   .0000
  .502   .0000

CAL T14-053 (IA36 02 + T1 + S1 LOWER LH MPS NOZ.)   (SUFB08)   (18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0193 SCALE		

PARAMETRIC DATA

ALPHA =	.000	POWER =	1.000
OPR =	28.300	SPMPR =	2.000
OPR =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) = 1.194   BETA (1) = -6.074

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

Z/DE	X/DE .0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000	.0000	.0000			
-.482						
-.449	.0210	-.0340				
-.434			-.0220	.0000		
-.418						
-.397			-.0030	.0000	.0000	
-.389					.0060	.0000
-.344						
-.336						
-.291						
-.266	-.0390	-.0460				.0300
-.251			-.0120			
-.241						
-.230				.0040	.0610	.0430
-.225						
-.198					.0400	.0180
-.168	-.0810	-.0530	-.0300	.0330		.0110
-.133		-.0530	-.0300	.0330	.0090	
-.000						
-.000				.0210		.0200
.133			.0330			
.169						
.198	.0360	-.0150				.0000
.225				.0170		
.230			.0110	.0000		
.241		.0010				
.251						
.266	.0200	.0000				
.291	-.0120					
.336						
.344		.0000				
.389						
.397						
.418						
.434						
.449						
.482						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   (SUFB08)

CAL .14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) = 1.194   BETA (1) = -6.074   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE	
.5C2	.0000

MACH (1) = 1.194   BETA (2) = -3.044   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE	.0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000	.0000	.0000	.0000		
-.482						
-.449	.0720	.0000	.0000			
-.434						
-.418						
-.397			.0050	.0000		
-.389				-.0030	.0040	
-.344					.0000	.0000
-.336						
-.291						.0000
-.266	.0080	-.0170				
-.251						
-.241			.0C0L	.0240	.0000	
-.230						
-.225						.0250
-.198	-.0660	-.0480	-.0370	.0000	.0200	.0060
-.168		-.0480	-.0370	.0000	.0000	.0160
-.133				-.0170		
-.000			.0000		.0000	.0000
.000	-.0110	-.0510				
.133						.0000
.168			-.0220	.0100	.0180	
.198				.0000	.0000	
.225	.0090	.0000	.0000			
.230						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A35)

(SUFB09)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) = 1.194   BETA (2) = -3.044   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
.482   .0000
.502

MACH (1) = 1.199   BETA (3) = .000   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
-.502   .0000   .0000   .0000
-.482
-.449   .0570   .0310
-.434
-.418   .0300   .0110
-.397   .0000
-.389   .0000
-.344   -.0070   .0000
-.336
-.291
-.265   .0320
-.251   .0120   .0130   .0090   .0160
-.241
-.230
-.225   .0290   .0280
-.198
-.168
-.133 -.0560 -.0480 -.0400 -.0020   .0090   .0030
-.000 -.0480 -.0400 -.0020   -.0040
-.000
-.133
-.168   .0070   .0020
-.153
-.225   .0050
-.230
-.241 -.0340 -.0710 -.0070
-.251
-.255   .0260
-.291   .0000   .0000
-.316
-.344   -.0070   .0200
-.363
-.397   .0000
-.418
-.434 -.0270 -.0210

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (SUFB08)

MACH (1) = 1.199   BETA (3) = .000   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
.449					
.482	.0000				
.502	.0000				

MACH (1) = 1.195   BETA (4) = 3.049   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER LH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280

Z/DE
-.502	.0000					
-.482		.0000				
-.449	.0270	.0390				
-.434			-.0130	.0000		
-.418				.0000		
-.397					.0000	
-.389					.0820	
-.344						.0000
-.336						
-.291	.0720	-.0460				
-.266						.0440
-.251			-.0220	.0300		
-.241				.0400		.0410
-.230						
-.225	-.1380	-.1050	-.0700	-.0160	-.0010	.0110
-.198		.1050	.0700	-.0160		.0140
-.168				-.0880	-.0040	
-.133			-.0070			-.0060
.000						
.133	-.0450	-.0390				
.168						.0000
.198						
.225			.0090	-.0030	-.0440	
.230				.0000	.0000	
.241	-.0050		.0000			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-C53 (IA35)   (SUFB08)

CAL T14-C53 IA35 C2 + T1 + S1 LOWER LH MPS NOZ.

MACH (1) = 1.195   BETA (4) = 3.049

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.434	-.0120					
.449	.0000	.0000				
.482	.0000					
.502	.0000					

MACH (1) = 1.197   BETA (5) = 6.079

SECTION (1) LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449	.1330	.0240				
-.434						
-.418			.0110	.0000		
-.397				.0210	.0000	
-.389					.0200	
-.344						.0000
-.336						
-.291						
-.266	.0670	-.0100				.0110
-.251						
-.241			-.0080	.0100		
-.230					.0400	.0190
-.225						
-.198						
-.168	-.1410	-.0880	-.0750	-.0350	-.0070	.0000
-.133		-.0880	-.0750	-.0350		-.0040
-.000						
.000			-.0040	-.0270	-.0210	
.133						
.168						
.198						
.230	-.0170	-.0530				.0130
.522						
.142						
.152						
.266				-.0170	-.0070	.0000
.291					.0000	
.336			.0000	.0000		
.397						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.   (SUFB08)

MACH (1) = 1.197   BETA (5) =   6.079

SECTION ( )LOWER LH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.418						
.434	-.0220	-.0030				
.449						
.482	.0000	.0000	.0000			
.502						

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

MACH (1) = .901   ALPHA (1) = -8.088

SECTION (1)LOWER RH MPS NOZ.　　　　DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449				.0000	.0000	
-.397						
-.336						
-.266	-.0160	.0210	-.0230	-.0240	-.0100	-.0180
-.251						
-.241						
-.225						
-.198	.1380	.3950	.2750	.0010	-.0050	.0010
-.168		.3950	.2750	.0010		-.0160
-.133						
-.000			.12 0	.0090	-.0420	-.0270
.000						
.133						
.168						
.198		.4820				
.225	.4130			.0600	.0000	
.230				.0600		
.241						
.152		.0360	-.0050	.0230		
.266						
.291	-.0380		.0000	.0000		
.336						
.344	.0000	.0000	.0000			
.383						
.397						
.418						
.434						
.449						
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 391

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (SUFC01)

MACH (1) =   .900   ALPHA (2) =   -4.049

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449				.0000		
-.397					.0000	.0000
-.336						
-.266	-.0090	.0380	-.0110			
-.251				-.0470	-.0340	-.0040
-.241						
-.225						
-.198	.1490	.4080	.3300	.0010	-.0020	-.0100
-.168		.4080	.3300	.0010		-.0160
-.133					-.0220	
-.000				.0000		
-.000		.4910	.1390			-.0290
-.133						
-.168	.4030				.0240	.0000
-.198				.0310	.0000	
-.225						
-.230			-.0070	.0000		
-.241		.0100				
-.251	.0540					
-.266	.0000	.0000	.0000	.0000		

MACH (1) =   .900   ALPHA (3) =   .013

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449				.0000	.0000	
-.397						
-.336						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (SUFCO1)

MACH (1) = .900   ALPHA (3) = .013

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.266						
-.251	-.0050					.0000
-.241		.0410	-.0040			
-.225				-.0630		
-.198						
-.168						
-.133					-.0350	-.0050
-.000	.1460	.3760	.2990	.0250	-.0120	-.0110
.000		.3760	.2590	.0250	-.0480	-.0110
.133						
.168						
.198						
.225			.1610	-.0020		
.230						
.241						-.0350
.251	.3370	.4780				
.266						
.291						.0000
.336				.0230	.0140	
.344			.0070	.0000	.0000	
.389						
.397						
.418						
.434	.0510	-.0100				
.449						
.482	.0000	.0000	.0000	.0000		
.502						

MACH (1) = .899   ALPHA (4) = 4.005

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4050	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000	.0000	.0000	.0000
-.449						
-.397						
-.336						
-.265						
-.251	.0210	.0760	.0000	.0000	.0000	.0000
-.241						
-.225			.0030	-.0550		
-.198						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (SUFC01)

MACH (1) = .899   ALPHA (4) = 4.005

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/OE	.0580	.2320	.4060	.5800	.7540	.9280
Z/OE						
-.168						
-.133					-.0550	.0050
-.000	.1680	.4030	.3240	.0390	-.0040	-.0290
.133		.4030	.3240	.0390		-.0140
.168					-.0480	
.198				.0020		
.225			.1630			
.230					-.0430	
.241						
.251	.3320	.4890				
.266					.0000	
.291					.0240	
.336				.0290	.0000	
.344			.0120			
.389				.0000		
.397						
.418	.0340	-.0250				
.434						
.449		.0000	.0000			
.482						
.502	.0000					

MACH (1) = .899   ALPHA (5) = 6.006

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/OE	.0580	.2320	.4060	.5800	.7540	.9280
Z/OE						
-.502	.0000	.0000	.0000	.0000	.0000	.0000
-.482						
-.449						
-.397						
-.336						
-.266						
-.251	.0010	.0610				
-.241			.0030			
-.225				-.0460	-.0360	-.0080
-.198						
-.168						
-.133						
-.000	.1710	.4030	.3140	.0150	.0100	-.0100
-.000		.4030	.3140	.0150		-.0030
.133						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NCZ.   (SUFCO1)

MACH (1) = .899   ALPHA (5) = 6.006

SECTION (1)LOWER RH MPS NCZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.168						
.198						
.225			.1470	-.0150	-.0660	
.230						-.0350
.241	.3490	.4840				
.251						
.266						.0000
.291					.0070	
.336					.0000	
.344						
.389			.0070	.0100		
.397						
.418						
.434	.0430	.0080	.0000			
.449						
.482	.0000	.0000				
.502						

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (SUFC02)   (18 DEC 73)

REFERENCE DATA

SREF	=	49.4000 SO.FT.	XMRP = 158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP = .0000 INCHES
BREF	=	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE	=	.0190 SCALE	

PARAMETRIC DATA

ALPHA	=	.000	POWER =	.000
GP1	=	11.000	GY1 =	-9.000
GP2	=	.000	GY2 =	-9.000
GP3	=	.000	GY3 =	.000

MACH (1) =   .901   BETA (1) = -6.079

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502						
-.482	.0000	.0000	.0000	.0000	.0000	.0000
-.449						
-.397						
-.336						
-.266						
-.251	.0170					
-.241		.0420	-.0360	-.0470	-.0380	-.0010
-.198						
-.168						
-.133						
-.000	.1160	.3270	.2020	-.0030	.0080	-.0230
-.000		.3270	.2020	-.0030		.0000
-.133						
-.168					-.0440	
-.198						
-.225						
-.230			.0700	-.0130		-.0410
-.241						
-.251	.2850	.3140				
-.266						
-.291						.0000
-.336				.0240	.0340	
-.344					.0000	
-.389			.0100			
-.397				.0000	.0000	
-.418						
-.434	.0820	-.0140				
-.449						
-.482			.0000	.0000		
-.502	.0000					

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

(SUFC02)

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = .900   BETA (2) = -3.049   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000	.0000		
-.449					.0000	.0000
-.397						
-.336						
-.266	.0030					
-.251		.0430				
-.241			-.0130	-.0430	-.0190	-.0020
-.225						
-.198						
-.168						
-.133	.1200	.3280	.2400	.0070	.0140	-.0050
-.000		.3280	.2400	.0070	.0140	-.0030
-.000				.0060	-.0400	
.133						
.168			.1100			-.0290
.199						
.225						
.230						
.241	.3160	.3620				
.251						
.266					.0260	.0000
.291					.0000	
.336			.0160	.0220		
.344				.0000		
.389						
.397						
.418	.0450	.0040				
.434						
.449		.0000	.0000			
.482	.0000					
.502						

MACH (1) = .901   BETA (3) = .000   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9290
Z/DE						
-.502	.0000					
-.482		.0000	.0000	.0000		
-.449					.0000	
-.397			.0000	.0000		
-.336						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.   (SUFC02)

MACH (1) = .901   BETA (3) = .000

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.266						.0000
-.251	.0030					
-.241		.0500				
-.225			-.0200			
-.198				-.0570		
-.168					-.0450	.0060
-.133	.1330	.3770	.2870	.0290	-.0070	-.0380
-.000		.3770	.2870	.0290	-.0070	-.0190
-.000						
.133						
.168						-.0360
.198						
.225			.1560	-.0020		
.230						
.241		.4770				
.251	.3350					
.266						.0000
.291				-.0360		
.336					.0210	
.344					.0000	
.389			.0110	.0210		
.397				.0000		
.418		-.0040				
.434	.0500					
.449		-.0040				
.482		.0000	.0000			
.502	.0000	.0000				

MACH (1) = .900   BETA (4) = 3.051

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000			
-.449				.0000	.0000	
-.397						.0000
-.336				.0000	.0000	
-.266						
-.251	.0040	.0680	-.0070	-.0450		
-.241						
-.225						
-.198						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(SUFC02)

CAL T14-053 1A36 C2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = .900   BETA (4) = 3.051

DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.168						
-.133					-.0340	-.0030
-.000	.1710	.4360	.4000	.0440	-.0190	-.0120
-.000		.4360	.4000	.0440	-.0530	-.0110
-.133				-.0030		
-.168						
.198						
.225			.2370			
.230					-.0300	
.241	.3810	.5970				
.251						.0000
.266					.0080	
.291					.0000	
.336			.0080	.0130		
.344						
.389			.0080			
.397				.0000		
.418	.0520	.0000				
.434			.0000			
.449	.0000	.0000	.0000			
.482						
.502						

MACH (1) = .901   BETA (5) = 6.089

DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449			.0000	.0000		
-.397						
-.336				.0000	.0000	
-.266						.0000
-.251	.0220					
-.241		.1140	.0510			
-.225				-.0480		
-.198						
-.168						
-.133					-.0600	.0130
-.000	.1840	.4720	.5010	.0850	-.0210	-.0160
-.000		.4720	.5010	.0850		-.0160
-.133						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

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CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

(SUFC02)

MACH (1) = .901   BETA (5) = 6.089

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/OE	.0580	.2320	.4060	.5800	.7540	.9280
Z/OE						
.168						
.198						
.225						
.230			.3750	-.0060	-.0470	
.241						-.0300
.251	.3970	.6860				
.266						
.291						
.336					.0090	.0000
.344					.0000	
.389			.0020	.0350		
.397				.0000		
.418		.0500				
.434	.1140					
.449		.0000	.0000			
.482	.0000					
.502	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

(SUFC03)   (18 DEC 73)

REFERENCE DATA

SPREF	=	49.4000	SQ.FT.	XMRP = 158.0000 INCHES
LREF	=	20.7000	INCHES	YMRP = .0000 INCHES
BREF	=	90.7000	INCHES	ZMRP = .0000 INCHES
SCALE	=	.0190	SCALE	

PARAMETRIC DATA

BETA	=	.000	POWER	= 1.000
OPR	=	36.200	SRMPR	= 2.330
GP1	=	11.000	GY1	= -9.000
GP2	=	.000	GY2	= -9.000
GP3	=	.000	GY3	= -9.000

MACH (1) = .897   ALPHA (1) = -8.088

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4050	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000	.0000	.0000	.0000	.0000
-.449						
-.397						
-.336						
-.266						
-.251	-.1220					
-.241		.0680	-.0430	-.0450	-.0250	.0180
-.225						
-.198						
-.168						
-.133						
-.000	.2070	.5080	.3610	.0230	.0290	-.0180
.000		.5080	.3610	.0230		-.0230
.133					-.0790	
.168				.0190		
.198						
.225						-.0840
.230			.1430			
.241	.4720	.6240				
.251						
.265						.0000
.291					.0150	
.336					.0000	
.344				.0070		
.389			.0580			
.397				.0000		
.418						
.434	-.0020	-.0220				
.449						
.482	.0000	.0000				
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (SUFC03)

MACH (1) = .899   ALPHA (2) = -4.038

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502						
-.482	.0000	.0000				
-.449			.0000	.0000	.0000	
-.397						
-.336						.0000
-.266						
-.251	-.1220	.0770	.0030	-.0540	-.0380	.0280
-.241						
-.225						
-.198						
-.168						
-.133	.1770	.4700	.4090	.0080	-.0300	-.0290
-.000		.4700	.4090	.0080	-.0300	-.0100
.000					-.0200	
.133				.0040		
.168			.1930			
.198						-.0220
.225						
.230						
.241	.4320	.6430				
.251					.0150	
.266					.0000	.0000
.291				.0110		
.336				.0000		
.344			.0020			
.389						
.397			.0000			
.418		-.0300				
.434	-.0040					
.449		.0000	.0000			
.482						
.502	.0000	.0000	.0000			

MACH (1) = .901   ALPHA (3) = .001

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502						
-.482	.0000	.0000	.0000	.0000	.0000	.0000
-.449						
-.397						
-.336						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(SUFC03)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = .901   ALPHA (3) = .001   DEPENDENT VARIABLE DELCP

SECTION ( )LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.266						
-.251	-.1060					.0000
-.241						
-.225		.0820	.0060			
-.198				-.0590	-.0430	.0130
-.168						
-.133						
-.C00	.1570	.4520	.4410	.0260	-.0400	-.0140
-.000		.4520	.4410	.0260	-.0400	-.0100
.133					-.0070	
.168				.0160		
.198			.2450			
.225						
.230						-.0090
.241						
.251	.3480	.6160				
.266						
.291					.0110	.0000
.336					.0000	
.344						
.389			-.0260	-.0010		
.397				.0000		
.418						
.434	.0120	-.0190				
.449	.0000	.0000				
.482						
.502	.0000					

MACH (1) = .902   ALPHA (4) = 4.026   DEPENDENT VARIABLE DELCP

SECTION ( )LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000	.0000	.0000
-.482						
-.449						
-.397						
-.336						
-.266	-.0690	.1210				
-.251						
-.241						
-.225			.0130	-.0610		
-.198						

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.   (SUFC03)

MACH (1) = .902   ALPHA (4) = 4.026

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.158						
-.133					-.0580	.0300
-.000	.1750	.4900	.4680	.0480	-.0440	-.0330
-.000		.4900	.4680	.0480		-.0100
.133					-.0240	
.168						
.198			.2230	.0120		
.225						
.230						-.0190
.241		.6290				
.251	.3830					
.266					.0220	.0000
.291					.0000	
.336				.0030		
.344			.0010.-			
.389						
.397				.0000		
.418		-.0370				
.434	.0220					
.449			.0000			
.482		.0000				
.532	.0004					

MACH (1) = .898   ALPHA (5) = 6.021

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000			
-.482						
-.449				.0000		
-.397					.0000	.0000
-.336						
-.266						
-.251	-.0980	.0910	-.0240	-.0630	-.0300	-.0010
-.241						
-.225						
-.198						
-.168						
-.133	.1760	.4930	.4500	.0470	-.0070	-.0140
-.000		.4930	.4500	.0470		-.0030
.000						
.133						

DATE 05 NOV 75   TABULATED DATA FOR CAL 714-C53 (1A36)

CAL 714-C53 :A36 O2 + T! + S! LOWER RH MPS NOZ.   (SURFC03)

MACH (1) = .898   ALPHA (5) = 6.02!

SECTION ( )LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.168						
.198				.0080	-.0600	
.225			.2250			-.0510
.230						
.241						
.251	.4060	.6280			-.0120	.0000
.266					.0000	
.291						
.336						
.344			.0240	-.0160		
.389				.0000		
.397						
.418	.0180	-.0140				
.434						
.449			.0000			
.482	.0000	.0000				
.502						

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.

(SUFCO4)   (18 DEC 73)

REFERENCE DATA

SREF =	49.4000	SQ.FT.
LREF =	90.7000	INCHES
BREF =	90.7000	INCHES
SCALE =	.0130	SCALE

XMRP =	158.0000	INCHES
YMRP =	.0000	INCHES
ZMRP =	.0000	INCHES

PARAMETRIC DATA

ALPHA =	.000	POWER =	1.000
OPR =	36.200	SRMPR =	2.330
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) = .999   BETA (1) = -6.078

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502						
-.482	.0000	.0000	.0000	.0000	.0000	.0000
-.449						
-.397						
-.336						
-.266						
-.251	-.1010	.0820	-.0030	-.0630	-.0280	.0140
-.241						
-.225						
-.198						
-.168						
-.133						
-.000	.1140	.4520	.3610	.0170	-.0160	-.0210
-.000		.4520	.3610	.0170	-.0170	-.0270
-.133						
-.168						
-.198					.0280	-.0170
-.225						
-.230						
-.241		.4930	.1640			-.0340
-.251	.3710					
-.266						
-.291				.0330		.0000
-.336				.0000		
-.344						
-.389			.0020	.0140		
-.397			.0000	.0000		
-.418						
-.434	-.0080	-.0220				
-.449						
-.482	.0000	.0000				
-.502						

(SUFC04)

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = .900   BETA (2) = -3.049

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000		
-.482						
-.449					.0000	.0000
-.397						
-.375						
-.266						
-.251	-.1070					
-.211						
-.225		.0660	-.0080	-.0540	-.0310	.0230
-.196						
-.168						
-.133						
-.000	.1100	.4190	.3520	.0280	-.0140	-.0270
-.000		.4190	.3520	.0280	-.0300	-.0210
-.133						
-.168						
-.198				.0090		
-.225						
-.230			.1900			-.0350
-.241	.3200	.4740				
-.251						
-.265						
-.291					.0180	.0000
-.336				.0160	.0000	
-.344			.0190			
-.363				.0000		
-.397						
-.418		-.0050				
-.434	-.0290					
-.449		.0000	.0000			
-.482						
-.502	.0000					

MACH (1) = .899   BETA (3) = .000

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000		
-.482					.0000	.0000
-.449						
-.397						
-.336						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

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CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.

(SUFC04)

MACH (1) = .899   BETA (3) = .000

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.266						
-.251	-.0970					.0000
-.241		.0900				
-.225			-.0150			
-.198				-.0600		
-.168					-.0370	.0180
-.133						
-.000	.1400					
.000		.4560	.4260	.0310	-.0250	-.0210
.133		.4560	.4260	.0310	-.0300	-.0070
.168						
.198				.0150		
.225			.2360			-.0320
.230						
.241		595.0				
.251	.3500					
.266						.0000
.291					.0070	
.336					.0000	
.344				.0030		
.389			.0060			
.397				.0000		
.418	.0290	-.0200				
.434						
.449			.0000			
.482		.0000				
.502	.0000					

MACH (1) = .898   BETA (4) = 3.051

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449			.0000			
-.397				.0000		
-.336					.0000	.0000
-.266						
-.251	-.0620					
-.241		.1080				
-.225			.0380			
-.198				-.0340		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(SUFC04)

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = .898   BETA (4) = 3.051   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.168					-.0450	.0320
-.133						
-.000	.2550	.5340	.5410	.0690	-.0390	-.0250
-.000		.5340	.5410	.0690		-.0300
-.133					-.0300	
-.168				.0130		
.198			.3640			-.0270
.225						
.230						
.241	.3780	.7250				
.251						.0000
.265					.0020	
.291					.0000	
.336				.0180		
.344			.0060			
.389				.0000		
.397						
.418	.0250	-.0370				
.434						
.449						
.482	.0000	.0000	.0000			
.502						

MACH (1) = .899   BETA (5) = 6.088   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000	.0000	.0000
-.482						
-.449						
-.397						
-.335				.0000	.0000	.0000
-.266						
-.251	-.0420	.1320	.0710			
-.241						
-.225				-.0290	-.0440	.0110
-.198						
-.168						
-.133						
-.000	.3060	.5670	.6770	.1300	-.0230	-.0310
-.000		.5670	.6770	.1300		-.0370
.133						

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL T14-053 (1A36)　　　　

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.　　　　(SUFC04)

MACH (1) = .899　　BETA (5) = 6.088

SECTION (1)LOWER RH MPS NOZ.　　　　DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.168						
.198						
.225			.5080	.0240	-.0310	
.230						
.241						-.0172
.251	.3870	.8150				
.266						
.291					.0180	.0000
.336				.0220	.0000	
.344			-.0080			
.389				.0000		
.397						
.418	.0790	-.0440				
.434						
.449						
.482	.0000	.0000	.0000			
.502						

TABULATED DATA FOR CAL T14-053 (1A36)

DATE 05 NOV 75

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF =	90.7000 INCHES	YMRP = .0000 INCHES
BREF =	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE =	.0190 SCALE	

(SUFC05)

PARAMETRIC DATA

BETA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = 1.203   ALPHA (1) = -8.10!

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000		
-.482						
-.449					.0000	.0000
-.397						
-.336						
-.266						
-.251	-.0100	.0370	.0490	-.0540	-.0210	-.0150
-.241						
-.225						
-.198						
-.168						
-.133	.3210	.5050	.4000	.0150	-.0240	.0100
-.000		.5050	.4000	.0150	-.0650	-.0090
.000						
.133						
.168						
.198			.2790	.0070		-.0180
.225						
.230		.7590				
.241	.6940					
.251						
.266				.0240	.0000	
.291				.0000		
.335			.0950			
.344						
.389						
.397		.1770				
.418						
.434	.1540					
.449						
.482	.0000	.0000	.0000			
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 411

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (SUFC05)

MACH (1) = 1.202   ALPHA (2) = -4.038   DEPENDENT VARIABLE DELCP

SECTION (1) LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000		.0000	.0000
-.482						
-.449						
-.397						
-.336						
-.266						
-.251						.0000
-.241	-.0060	.0180	.0180			
-.225						
-.198				-.0350	-.0120	-.0220
-.168						
-.133						
-.000	.2940	.4730	.3100	.0140	-.0100	.0070
-.000		.4730	.3100	.0140		-.0150
-.133					-.0330	
-.168						
-.198				.0090		
-.225						
-.230						
-.241		.5980	.1820			
-.251	.6330					-.0320
-.266						
-.291					.0140	.0000
-.336					.0000	
-.344						
-.389			.0380	.0120		
-.397				.0000		
-.418						
-.434	.0700	.1070				
-.449						
-.482	.0000	.0000	.0000	.0000		
-.502	.0000					

MACH (1) = 1.203   ALPHA (3) = -.011   DEPENDENT VARIABLE DELCP

SECTION (1) LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000		.0000	.0000
-.482						
-.449						
-.397						
-.335						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 412

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (SUFC05)

MACH (1) = 1.203   ALPHA (3) = -.011   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.266						.0000
-.251	-.0010					
-.241		.0230				
-.225			.0040			
-.198				-.0120		
-.168					-.0020	-.0230
-.133						
-.000	.2810	.4410	.2330	.0040	.0170	.0050
.000		.4410	.2330	.0040	.0040	-.0040
.133					-.0390	
.168				-.0040		
.198			.1110			
.225						-.0300
.230						
.241						
.251	.5040	.4500				
.266						.0000
.291					.0080	
.336					.0000	
.344						
.389			.0210	.0070		
.397				.0000		
.418						
.434	.0280	.060U				
.449						
.482	.0000	.0000	.0000			
.502						

MACH (1) = 1.203   ALPHA (4) = 4.003   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000	.0000	.0000
-.482						
-.449						
-.397						
-.336						
-.266						
-.251	.0150	.0390				
-.241			-.0110			
-.225				-.0200		
-.198						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.   (SUFC05)

MACH (1) = 1.203   ALPHA (4) = 4.003

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.158						
-.133					-.0100	-.0210
-.000	.3010	.4060	.1850	-.0190	.0113	.0060
-.000		.4060	.1850	-.0190		.0020
.133					-.0310	
.168				.0110		
.198						
.225			.0470			-.0360
.230						
.241	.4400	.3480				
.251						
.266					.0070	.0000
.291					.0000	
.336						
.344			.0230	-.0010		
.389				.0000		
.397		.0200				
.418	-.0090		.0000			
.434						
.449						
.482	.0000					
.502						

MACH (1) = 1.202   ALPHA (5) = 6.018

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000	.0000	.0000
-.482						
-.449						
-.397						
-.336						
-.266	.0250	.0390				
-.251			-.0170			
-.241				-.0200	-.0120	-.0270
-.225						
-.198						
-.168						
-.133	.0000	.3870	.1530	-.0220	.0130	.0080
-.000		.3870	.1530	-.0220		-.0090
.133						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA35)

CAL T14-053 1A36 02 + TI + 5   LOWER RH MPS NOZ.   (SUFC05)

MACH (?) = 1.202   ALPHA (5) = 6.018

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0530	.2320	.4060	.5800	.7540	.9280
Z/DE						
.58						
.198						
.225						
.230			.0240	.0170	-.0300	
.241						-.0420
.251	.3600	.2660				
.266					.0060	
.291				.0000	.0000	.0000
.375						
.371						
.329						
.397			.0250	.0000		
.18						
.434	-.0160	.0210				
.449	.0000	.0000	.0000			
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

(SUFC06)   (18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH (1) = 1.202   BETA (1) = -6.079

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.000C	.0000	.0000	
-.482						
-.449						
-.397						
-.336						
-.266						.0000
-.251	.0090	.0220	-.0150			
-.241				-.0020	-.0140	-.0060
-.225						
-.198			.1220	-.0280	.0290	.0000
-.168	.1990	.3080	.1220	-.0280		.0040
-.133		.3080				
-.000				.0030	-.0310	
-.000			-.0050			
-.133						-.0310
-.168	.3570	.2610				
-.198					.0010	.000C
-.225				.0050	.0000	
-.230						
-.241			.0070			
-.251				.0000		
-.266	.0170	-.0250				
-.291			.0000			
-.335	.0000	.0000				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-C53 (1A36)

CAL T14-C53 (A36 02 + T1 + S1 LOWER RH MPS NOZ)

MACH (1) = 1.202   BETA (2) = -3.05;

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449			.0000			
-.337				.0000		
-.336					.0000	.0000
-.266						
-.251	.0020					
-.241		.0180				
-.225			-.0400	.0000		
-.198					-.0130	-.0100
-.168						
-.133	.2100	.3430	.1460	-.0270	.0270	-.0040
-.100		.3430	.1460	-.0270		.0110
-.133				-.0050	-.0350	
-.168			.0340			
-.198						-.0340
-.225		.3420				
-.230	.4100					
-.241					.0130	.0000
-.251				.0030	.0000	
-.265			.0110			
-.291		-.0110		.0000		
-.336	.0320					
-.344	.0060	.0000	.0000			

MACH (1) = 1.202   BETA (3) = .000

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449			.0000	.0000		
-.397					.0000	
-.336						.0000

(SUFC06)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = 1.202   BETA (3) = .000   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.266						.0000
-.251	.0000	.0000				
-.241			-.0110			
-.225						
-.198				-.0080		
-.168					.0000	.0000
-.133						
-.000	.2580	.4240	.2210	-.0030	.0210	.0000
.000		.4240	.2210	-.0030		.0050
.133					-.0410	
.168						
.198			.1050	.0000		
.225						
.230						-.0320
.241		.4570				
.251	.0000					
.266						
.291						
.336					.0000	.0000
.344					.0000	
.389			.0250	.0000		
.397				.0000		
.418						
.434		.0000				
.449	.0140					
.482	.0000	.0000				
.502	.0000					

MACH (1) = 1.203   BETA (4) = 3.051   DEPENDENT VARIABLE DELCP

SECTION (1)LOWER RH MPS NOZ.

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000	.0000	.0000
-.482						
-.449						
-.397						
-.336						
-.266						
-.251	.0130	.0480	.0160	-.0130		
-.241						
-.225						
-.198						

CAL T14-053 IA36 C2 + TI = S: LOWER RH MPS NOZ.　　　(SUCCESS)

MACH (1) = 1.203　　BETA (4) = 3.051

SECTION (1)LOWER RH MPS NOZ.　　DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.463					-.0210	
-.133					-.0210	-.0120
-.000	.3400	.4950	.3690	.0250	.0050	.0020
-.133		.4950	.3690	.0250	.0050	.0010
-.168				.0090	-.0410	
.198						
.225			.2080			-.0340
.230						
.241	.6200	.6200				.0000
.251						
.266					.0090	
.291					.0000	
.336				.0160		
.344			.0490			
.389						
.397				.0000		
.418	.0610	.0500				
.434						
.449			.0000			
.482	.0000	.0000				
.502						

MACH (1) = 1.203　　BETA (5) = 8.079

SECTION (1)LOWER RH MPS NOZ.　　DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.504	.0000	.0000	.0000	.0000	.0000	.0000
-.482						
-.449						
-.397						
-.336						
-.266						
-.251	.0540	.0790	.0870	-.0370	-.0190	-.0180
-.241						
-.225						
-.198						
-.168						
-.133	.5770	.5330	.4890	.0620	-.0140	-.0020
-.000		.5330	.4890	.0620	-.0140	.0010
.133						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA3E)

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (SUFC06)

MACH (1) = 1.203   BETA (5) = 6.079

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.168						
.198					-.0350	
.225			.3060	.0300		
.230						-.0300
.241						
.251	.6470	.7500				
.266						.0000
.291					.0140	
.336					.0000	
.344				.0290		
.309			.0820			
.337				.0000		
.418		.0740				
.434	.0700		.0000			
.449		.0000				
.482	.0000					
.502						

DATE 05 NO. 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S: LOWER RH MPS NOZ.

(SUFC07)   (18 DEC 73

REFERENCE DATA

SREF = 49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF = 90.7000 INCHES	YMRP =	.0000 INCHES
BREF = 90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE = .0190 SCALE		

PARAMETRIC DATA

BETA =	.000	POWER =	1.000
CPR =	28.310	SRMPR =	2.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) = 1.199   ALPHA (1) = -8.108

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502						
-.482	.0000	.0000	.C000	.0000	.0000	
-.449						
-.397						
-.335		.0000		.0000		.0000
-.266						
-.251	-.0050	.0440	.0490	.0030	-.0140	.0160
-.241						
-.225						
-.198						
-.168						
-.133	.4630	.5320	.4420	.0850	.0230	.0220
-.000		.5320	.4420	.0850	.0230	.0130
.000						
.133				.0460	.0050	
.168						
.198						
.225						
.230			.3450			-.0190
.241						
.251	.6050	.8460		.0070	.0350	.0000
.266					.0000	
.231						
.336			.0630			
.344						
.389	.2610	.0840		.0000		
.397						
.418						
.434	.0000	.0000	.0000			
.449						
.482						
.502						

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ. (SUFC07)

MACH (1) = 1.198 ALPHA (2) = -4.075

SECTION (1)LOWER RH MPS NOZ. DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449			.0000			
-.397				.0000		
-.336					.0000	
-.266						.0000
-.251	.0100					
-.241		.0360				
-.225			-.0220	.0100		
-.198					-.0150	
-.188						.0130
-.133						
-.000	.4480	.4860	.3270	.0460	.0390	.0120
.000		.4860	.3270	.0460		.0040
.133					.0020	
.168				.0240		
.198			.1880			
.225						-.0270
.230		.6780				
.241	.6200					
.251						.0000
.266						
.291				.0190	.0370	
.336				.0000	.0000	
.344			.0460			
.389		.0370				
.397	.0890					
.416						
.434						
.449		.0000	.0000			
.482	.0000					
.502						

MACH (1) = 1.197 ALPHA (3) = -.023

SECTION (1)LOWER RH MPS NOZ. DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000					
-.482		.0000				
-.449			.0000			
-.397				.0000		
-.336					.0000	

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A35)

(SUFC07)

CAL T14-053 ;A35 O2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = 1.197   ALPHA (3) = -.023

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.266						.0000
-.251	.0160					
-.241		.0370	-.0420	.0090	-.0140	.0190
-.225						
-.198						
-.168						
-.133	.4380	.4480	.2430	.0400	.0300	-.0110
-.000		.4480	.2430	.0400	.0400	-.0090
-.000						
-.133					.0040	
-.168						
-.198			.1810	.0190		-.0130
-.225						
-.230						
-.241	.5180	.5550				
-.251						
-.265					.0270	.0000
-.291					.0000	
-.336				.0270		
-.344			.0410			
-.389				.0000		
-.397						
-.418	.0180	-.0240				
-.434						
-.443		.0000	.0000			
-.462						
-.502	.0000					

MACH (1) = 1.196   ALPHA (4) = 4.017

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000	.0000	.0000
-.482						
-.449						
-.397						
-.336						
-.266						
-.251	-.0120	.0030	.0000			
-.241				.0460		
-.225						
-.199						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36:

(SUFC07)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = 1.196   ALPHA (4) = 4.017

SECTION (1)LOWEF RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9290
Z/DE						
-.168						
-.133					.0210	.0050
-.000	.4810	.4450	.1930	.0000	.0000	.0310
.000		.4450	.1930	.0000	.0000	-.0010
.133				.0030	.0000	
.168			.1440			
.198						
.225						.0000
.230						
.241	.4340	.3220				
.251						.0000
.266					.0120	
.291					.0000	
.336				.0250		
.344			.0000			
.389				.0000		
.397		.0520				
.418	.0680					
.434			.0000			
.449						
.482	.0000	.0000				
.502						

MACH (1) = 1.200   ALPHA (5) = 6.028

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000	.0000	.0000
-.482						
-.449						
-.397						
-.336						
-.266						
-.251	-.0180	.0570	.0000	.0000	.0000	.0000
-.241						
-.225				.0380	-.0030	
-.198						
-.168						
-.133						-.0030
-.000	.4560	.3960	.1870	.0000	.0000	.0240
.000		.3960	.1870	.0000	.0000	.0150
.133						

DATE 05 NOV 75   TABULATED DATA FOR CAL TN-053 (IA36)

CAL TI4-053 IA36 02 + TI + SI LOWER RH MPS NOZ.

MACH (1) = 1.200   ALPHA (5) = 6.028

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5900	.7540	.9280
Z/DE						
.168				.0270	.0000	
.198						
.225			.1030			
.230					.0000	
.241		.3050				
.251	.3600					
.266						
.291					.0190	
.336					.0000	
.344			.0000	.0000		
.383						
.397				.0000		
.418		.0470	.0000			
.434	.0400					
.449						
.482		.0000				
.502	.0000					

CAL T14-053 IA36 O2 + TI + S1 LOWER RH MPS NOZ.

(SUFC08)   (18 DEC 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF =	90.7000 INCHES	YMRP = .0000 INCHES
BREF =	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE =	.0190 SCALE	

PARAMETRIC DATA

ALPHA =	.000	POWER =	1.000
OPR =	28.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH (1) = 1.194   BETA (1) = -6.074

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000	.0000	.0000
-.482						
-.449						
-.397						
-.336						
-.266	-.0240	.0340	-.0170	.0190	-.0070	.0240
-.251						
-.241						
-.225						
-.198						
-.168						
-.133	.3510	.3380	.1620	.0760	.0270	0:80
-.000		.3380	.1620	.0760		.0020
.133				.0570	.0410	
.168						
.198						
.225			.1160			-.0110
.230						
.241	.4970	.4030				
.251						
.266						
.291				.0290	.0410	.0000
.336					.0000	
.344			.0750	.0000		
.389						
.397						
.418	-.0090	.0410				
.434						
.449	.0000	.0000	.0000			
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA35)   (SUFC08)

CAL T14-053 (A35 O2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = 1.194   BETA (2) = -3.044

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

Z/C	X/C .0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000					
-.482		.0000				
-.449			.0000			
-.397				.0000	.0000	
-.336						.0000
-.266						
-.251	-.0100					
-.241		.0210				
-.225			.0000			
-.198				.0360	.0040	.0050
-.168						
-.133	.3670	.4230	.1770	.0000	.0000	.0280
-.000		.4230	.1770	.0000		-.0160
.133						
.163			.1860	.0420	.0000	
.198						
.225						.0000
.230		.4440				
.241						
.251	.4680					
.256					.0230	.0000
.291				.0420	.0000	
.336						
.344			.0000			
.389				.0000		
.397		.0480				
.418						
.434	-.0450					
.449		.0000	.0000			
.482						
.502	.0000					

MACH (1) = 1.199   BETA (3) = .000

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

Z/C	X/C .0580	.2320	.4060	.5800	.7540	.9280
-.502	.0000					
-.482		.0000				
-.449			.0000			.0000
-.397				.0000		
-.336						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (SUFC08)

MACH (1) = 1.199   BETA (3) =   .000

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.266						.0000
-.251	.0180					
-.241						
-.225		.0410				
-.198			-.0130	-.0130	-.0270	.0070
-.168						
-.133						
-.000	.3900	.4590	.2570	.0230	-.0030	-.0020
-.000		.4590	.2570	.0230	.0190	-.0210
-.168						
-.198			.1490	.0370		
-.225						
-.230						-.0200
-.241	.4810	.4890				
-.251						
-.266					.0390	.0000
-.291					.0000	
-.336						
-.344			.0130	.0240		
-.389						
-.397	.0070	.0210				
-.418						
-.434			.0000	.0000		
-.449						
-.482						
-.502	.0000	.0000				

MACH (1) = 1.195   BETA (4) = 3.049

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000	.0000	.0000
-.482						
-.449						
-.397						
-.336			.0000	.0000	.0000	
-.266						
-.251	-.006c					
-.241		.0060	.0220	.0100		
-.225						
-.198						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (:A36)

CAL T14-053 IA36 C2 + T1 + S1 LOWER RH MPS NOZ.

MACH (1) = 1.195   BETA (4) = 3.049

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.168						
-.133					.0110	.0150
-.000	.4540	.5180	.4920	.0910		
-.000		.5180	.4920	.0910	.0110	.0160
.133						-.0220
.168				.0380	.0380	
.193			.3000			
.225						.0880
.230						
.241	.6150					
.251		.6910				
.266					-.0500	.0000
.291					.0000	
.325				.0320		
.344			.0570	.0000		
.383						
.397		.1040				
.418	.1780					
.434			.0000			
.449						
.482	.0000	.0000				
.502						

MACH (1) = 1.197   BETA (5) = 6.079

SECTION (1)LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
-.502	.0000	.0000	.0000	.0000	.0000	.0000
-.482						
-.449						
-.397						
-.375						
-.266	.0110				.0000	.0000
-.251		.0330	.0240	.0070		
-.241						
-.225						
-.193					.0030	.0210
-.168						
-.133						
-.000	.4750	.5590	.4840	.1350	.0100	.0290
-.000		.5590	.4840	.1350		.0130
.133						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + T1 + '51 LOWER RH MPS NOZ.   (SUFC08)

MACH (1) =   1.197   BETA (5) =   6.079

SECTION (1) LOWER RH MPS NOZ.   DEPENDENT VARIABLE DELCP

X/DE	.0580	.2320	.4060	.5800	.7540	.9280
Z/DE						
.158						
.198						
.225			.3480	.0470	-.0010	
.230						.0010
.241						
.251	.6140	.7130				
.266						.0000
.291					.0190	
.336					.0000	
.344			.0960	.0280		
.389		.0880		.0000		
.397						
.418						
.434	.1340					
.449	.0000	.0000				
.482						
.502						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A35)

CAL T14-053 (A35 O2 + T) + S) UPPER MPS NOZZLE   (AUFAC?)   (17 NOV 73)

PARAMETRIC DATA

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	0.190 SCALE		

BETA	=	.000	POWER = .000
GP1	=	11.000	GY1 = -9.000
GP2	=	.000	GY2 = -9.000
GP3	=	.000	GY3 = .000

SECTION LIMITS   .000 / 1.000

MACH NO. .901   SECTION (1)   UPPER MPS NOZZLE

DCN/DX

X/OE	GRADIENT	ALPHA -8.0880	-4.0490	.0130	4.0050	6.0060
.058	.0534	-.2331	-.2164	-.1743	-.1598	-.1434
.232	.0787	-.3352	-.3185	-.2699	-.2703	-.2600
.406	.0552	-.2483	-.2234	-.1987	-.1983	-.1905
.580	.0177	-.1124	-.0718	-.0609	-.0449	-.0446
.754	-.0024	.0113	.0037	.0103	.0044	.0089
.928	-.0003	.0048	.0010	.0034	.0004	.0052

DATE 05 NOV 73   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 431

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE   (AUFAD:)   (17 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA		
SREF = 49.4000 SQ.FT.	XMRP =	158.0000 INCHES				
LREF = 90.7000 INCHES	YMRP =	.0000 INCHES		BETA =	.000	POWER = .000
BREF = 90.7000 INCHES	ZMRP =	.0000 INCHES		GP1 =	11.000	GY1 = -9.000
SCALE = .0190 SCALE				GP2 =	.000	GY2 = -9.000
				GP3 =	.000	GY3 = .000

MACH NO.   .901

SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCNHDX

X/DE	GRADIENT ALPHA	-8.0880	-4.0490	.0130	4.0050	6.0060
.098	-.0900	.3925	.3544	.2936	.2692	.2416
.232	-.1188	.5062	.4810	.4075	.4081	.3926
.406	-.0737	.3317	.2984	.2654	.2649	.2546
.590	-.0206	.1306	.0834	.0707	.0522	.0518
.754	.0024	-.0111	-.0096	-.0108	-.0043	.0088
.928	.0002	-.0039	-.0009	-.0028	-.0003	-.0042

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(AUFAC1)   (17 NOV 73)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

PARAMETRIC DATA

BETA =	.000	POWER = .000
GP1 =	11.000	GY1 = -9.000
GP2 =	.000	GY2 = -9.000
GP3 =	.000	GY3 = .000

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

SECTION LIMITS   .000 / 1.000

MACH NO.   .901   SECTION(1)   UPPER MPS NOZZLE

DCY/DX

X/DE	GRADIENT ALPHA	-8.0880	-4.0490	.0130	4.0050	5.0060
.058	.03-5	-.1499	-.1400	-.1140	-.0990	-.1001
.212	-.0207	-.0783	-.0840	-.0635	-.0502	-.0384
.406	.0135	-.0576	-.0549	-.0454	-.0354	-.0379
.580	-.0065	-.0257	-.0233	-.0245	-.0160	-.0169
.754	.0013	-.0003	-.0054	-.0027	-.0027	-.0005
.928	.0005	-.0003	-.0022	.0018	.0011	.0008

CAL T14-053 IA36 02 ~ T1 + S1 UPPER MPS NOZZLE   (AUFA01)   (17 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	BETA = .000 POWER = .000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP1 = 11.000 GY1 = -9.000
SCALE =	.0190 SCALE			GP2 = .000 GY2 = -9.000
				GP3 = .000 GY3 = .000

MACH NO.   .901

SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DC/NDX

X/DE	GRADIENT	ALPHA				
		-8.0880	-4.0490	.0130	4.0050	6.0060
.058	-.0582	.2524	.2358	.1921	.1666	.1686
.232	-.0313	-.1182	-.1258	-.0958	-.0909	-.0580
.406	-.0181	.0770	.0733	.0606	.0487	.0506
.580	-.0067	.0298	.0271	.0285	.0186	.0196
.754	-.0013	.0082	.0053	.0027	.0027	.0005
.928	-.0004	.0002	.0018	.0014	-.0009	-.0007

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A35)

CAL T14-053 (1A36 02 + T1 + S1 UPPER MPS NOZZLE)

(AUFAC2)

REFERENCE DATA

SPEF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF =	90.7000 INCHES	YMRP = .0000 INCHES
BREF =	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE =	.0190 SCALE	

PARAMETRIC DATA

ALPHA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH NO.   .901   SECTION(1) UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCN/DX

X/DE	GRADIENT	BETA	-6.0790	-3.0490	.0000	3.0510	6.0890
.058	.0328		-.0733	-.1001	-.1779	-.2156	-.3066
.232	.0754		-.1516	-.2299	-.2737	-.2824	-.3460
.406	.0532		-.0476	-.1621	-.2113	-.1522	-.1926
.590	.0028		-.0096	-.0084	-.0571	-.1532	-.1780
.754	-.0004		-.0011	.0013	.0061	.0154	-.0246
.928	-.0005		.0026	.0015	.0027	.0085	.0110

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL T14-053 (1A36)　　　　PAGE 435

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE　　　(AUFA02)　(17 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA		
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	ALPHA =	.000　POWER =	.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	GP1 =	11.000　GY1 =	-9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP2 =	.000　GY2 =	-9.000
SCALE =	.0190 SCALE			GP3 =	.000　GY3 =	.000

MACH NO.　　.901　　SECTION(1)　UPPER MPS NOZZLE　　SECTION LIMITS　.000 / 1.000

DCNMDX

X/CE	GRADIENT BETA	-6.0790	-3.0490	.0000	3.0510	6.0890
.058	-.0553	.1235	.1686	.2996	.3631	.5163
.232	-.1138	.2290	.3471	.4133	.4263	.5224
.406	-.0710	.0636	.2166	.2823	.2034	.2574
.580	-.0032	.0111	.0098	.0664	.1780	.2069
.754	.0004	.0011	-.0013	-.0060	-.0152	-.0243
.928	.0004	-.0021	-.0013	-.0022	-.0069	-.0090

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 436

CAL T14-053 1A3G 02 + T1 + S1 UPPER MPS NOZZLE   (AUFA02)   (17 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA	
SPEF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	ALPHA = .000	POWER = .000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	GP1 = 11.000	GY1 = -9.000
BPEF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP2 = .000	GY2 = -9.000
SCALE =	.0130 SCALE			GP3 = .000	GY3 = .000

MACH NO.   .901   SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCY/DX

X/DE	GRADIENT	BETA	-6.0790	-3.0490	.0000	3.0510	6.0890
.058	.0221		-.0290	-.0674	-.1143	-.1406	-.2143
.232	-.0059		-.0385	.0180	-.0705	-.0074	-.1733
.406	-.0041		-.0353	.0125	-.0339	-.0572	-.1165
.580	.0009		.0051	-.0026	-.0220	-.0360	-.0489
.754	.0001		.0610	-.0002	-.0048	-.0075	-.0020
.928	.0003		.0020	-.0009	.0005	-.0006	.0020

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE   (AUFA02)   (17 NOV 73)

REFERENCE DATA

SREF = 49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF = 90.7000 INCHES	YMRP =	.0000 INCHES
BREF = 90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE = .0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH NO.   .901

SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCYNDX

X/DE	GRADIENT BETA	-6.0790	-3.0490	.0000	3.0510	6.0890
.058	-.0372	.0488	.1135	.1925	.2367	.3608
.232	.0089	-.0581	-.0272	-.1065	.0112	.2616
.406	.0055	-.0472	-.0167	.0453	.0764	.1556
.580	-.0010	-.0059	.0031	.0256	.0419	.0569
.754	-.0001	-.0010	.0002	.0048	.0074	.0020
.928	-.0002	-.0016	.0007	-.0004	.0005	-.0016

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

REFERENCE DATA

PARAMETRIC DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

BETA	=	.000	POWER =	1.000
OPR	=	36.200	SRMPR =	2.330
GP1	=	11.000	GY1 =	-9.000
GP2	=	.000	GY2 =	-9.000
GP3	=	.000	GY3 =	-9.000

MACH NO.   .897

SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCN/DX

X/DE	GRADIENT ALPHA	-8.0880	-4.0380	.0010	4.0260	6.0210
.058	.0360	-.2050	-.1455	-.1015	-.0887	-.0815
.232	.0792	-.4069	-.3197	-.2834	-.2911	-.2936
.406	.0627	-.3039	-.2532	-.2269	-.3583	-.2257
.580	.0368	-.2161	-.1485	-.1214	-.0688	-.0673
.754	-.0017	.0073	.0069	.0007	.0002	-.0033
.928	-.0015	.0042	.0059	.0039	-.0017	-.0024

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (AUFA03)   (17 NOV 73)

REFERENCE DATA				PARAMETRIC DATA		
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	BETA =	.000	POWER = 1.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	OPR =	36.200	SRMPR = 2.330
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP1 =	11.000	GY1 = -9.000
SCALE =	.0190 SCALE			GP2 =	.000	GY2 = -9.000
				GP3 =	.000	GY3 = -9.000

SECTION LIMITS   .000 / 1.000

MACH NO.   .897   SECTION(1)   UPPER MPS NOZZLE

DCNMDX

X/DE	GRADIENT	ALPHA	-8.0880	-4.0380	.0010	4.0260	6.0210
.058	-.0607		.3453	.2450	.1710	.1494	.1372
.232	-.1196		.6144	.4828	.4280	.4395	.4434
.406	-.0838		.4060	.3383	.3032	.3013	.3015
.580	-.0427		.2511	.1726	.1410	.0799	.0782
.754	.0017		-.0072	-.0068	-.0007	-.0002	.0033
.928	.0012		-.0034	-.0048	-.0031	.0014	.0020

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

REFERENCE DATA

SPEF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA	=	.000	POWER =	1.000
OPR	=	36.200	SRMPR =	2.330
GP1	=	11.000	GY1 =	-9.000
GP2	=	.000	GY2 =	-9.000
GP3	=	.000	GY3 =	-9.000

MACH NO.   .897   SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCY/DX

X/DE	GRADIENT	ALPHA	-8.0880	-4.0380	.0010	4.0260	6.0210
.058	.0635		-.2581	-.2562	-.2100	-.1874	-.1731
.232	-.0169		.1181	.0681	.0814	.0882	.0983
.406	.0124		-.0311	-.0502	-.0280	-.0248	-.0063
.580	.0148		-.0715	-.0597	-.0514	-.0289	-.0266
.754	.0002		-.0071	-.0007	.0024	.0009	.0028
.928	-.0006		-.0002	.0025	.0037	.0068	.0037

CAL T14-053 1A36 02 " T1 + S1 UPPER MPS NOZZLE   (ALFA03)   (17 NOV 73)

REFERENCE DATA

		PARAMETRIC DATA	
SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES		
LREF = 90.7000 INCHES	YMRP = .0000 INCHES	BETA = .000	POWER = 1.000
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES	OPR = 36.200	SRMPR = 2.330
SCALE = .0190 SCALE		GP1 = 11.000	GY1 = -9.000
		GP2 = .000	GY2 = -9.000
		GP3 = .000	GY3 = -9.000

MACH NO.   .897   SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCYNDX

X/DE	GRADIENT	ALPHA -8.0880	-4.0380	.0010	4.0260	6.0210
.058	-.1068	.4346	.4315	.3537	.3156	.2915
.232	.0255	-.1783	-.1028	-.1230	-.1331	-.1484
.406	-.0166	.0416	.0671	.0374	.0331	.0084
.580	-.0172	.0830	.0693	.0597	.0336	.0310
.754	-.0002	.0070	.0050	.0023	-.0009	.0028
.928	.0005	.0001	-.0020	-.0030	-.0055	-.0030

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (AUFAC+) (17 NOV 75)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

ALPHA	=	.000	POWER	=	1.000
OPR	=	36.200	SAMPR	=	2.330
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	-9.000

MACH NO. .899   SECTION(1) UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCN/DX

X/DE	GRADIENT	BETA -6.0780	-3.0490	.0000	3.0510	6.0880
.058	.0107	-.0306	-.0325	-.0993	-.1555	-.2577
.232	.0819	-.2150	-.2498	-.2887	-.2672	-.3647
.406	.0746	-.0883	-.2274	-.2287	-.1457	-.1910
.580	.0072	-.0045	-.0219	-.0858	-.1843	-.1962
.754	.0007	-.0002	-.0022	-.0007	.0141	-.0267
.928	.0004	-.0033	-.0013	-.0002	.0074	.0124

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + T1 + S1 UPPER MPS NOZZLE   (AUFA04)   (17 NCV 73)

REFERENCE DATA

					PARAMETRIC DATA			
SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES			
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES	ALPHA	=	.000	POWER	=	1.000
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES	OPR	=	36.200	SRMPR	=	2.330
SCALE	=	.0190 SCALE				GPI	=	11.000	GY1	=	-6.000
						GP2	=	.000	GY2	=	-9.000
						GP3	=	.000	GY3	=	-9.000

MACH NO.   .899   SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCNMDX

X/OC	GRADIENT	BETA	-6.0780	-3.0490	.0000	3.0510	6.0880
.058	-.0179		.0515	.0547	.1671	.2619	.4339
.232	-.1237		.3247	.3773	.4359	.4034	.5507
.406	-.0996		.1180	.3038	.3055	.3622	.4266
.580	-.0083		.0053	.0254	.0997	.2141	.2280
.754	-.0007		.0002	.0022	.0007	-.0139	.0264
.928	-.0004		.0026	.0011	-.0002	-.0061	-.0101

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (AUFA04) (17 NOV 73)

PARAMETRIC DATA

REFERENCE DATA

SPEF = 49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF = 90.7000 INCHES	YMRP =	.0000 INCHES
BREF = 90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE = .0190 SCALE		

ALPHA =	.000	POWER =	1.000
OPR =	36.200	SRMPR =	2.330
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH NO.   .899   SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCY/DX

X/DE	GRADIENT BETA	-6.0780	-3.0490	.0000	3.0510	6.0880
.058	.0292	-.0454	-.0892	-.2066	-.2712	-.3422
.232	-.0120	.0349	.0354	-.1075	-.0222	-.1671
.406	-.0129	.0549	.0394	-.0239	-.0928	-.1524
.580	.0026	.0074	-.0079	-.0335	-.0357	-.0502
.754	-.0011	.0050	.0033	-.0014	-.0011	-.0005
.928	-.0015	.0035	.0044	.0057	.0057	.0094

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE   (AUFA04)   (17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	156.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

ALPHA	=	.000	POWER	=	1.000
OPR	=	36.200	SRMPR	=	2.330
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	-9.000

MACH NO.   .899   SECTION(1) UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCYNCX

X/DE	GRADIENT	BETA -6.0780	-3.0490	.0000	3.0510	6.0880
.058	-.0492	.0765	.1501	.3479	.4567	.5762
.232	.0180	-.0528	-.0550	-.1523	.0335	.2524
.406	.0172	-.0733	-.0526	.0319	.1240	.2036
.580	-.0030	-.0086	.0091	.0389	.0414	.0583
.754	.0011	-.0049	-.0033	.0014	.0010	-.0005
.928	.0012	-.0028	-.0036	-.0046	-.0047	-.0077

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 :A36 02 + T1 + S: UPPER MPS NOZZLE   (AUFA05) (17 NOV 73)

REFERENCE DATA

PARAMETRIC DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	BETA =	.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	GP1 =	11.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP2 =	.000
SCALE =	.0190 SCALE			GP3 =	.000

POWER =	.000
GY1 =	-9.000
GY2 =	-9.000
GY3 =	.000

MACH NO.   1.203   SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCN/DX

X/OE	GRADIENT	ALPHA -8.1010	-4.0380	-.0110	4.0030	6.0180
.058	.0981	-.4394	-.3962	-.3340	-.2883	-.2815
.232	.1196	-.5895	-.4828	-.4232	-.3940	-.4135
.406	.0963	-.4454	-.3890	-.3279	-.2828	-.2810
.580	.0826	-.4030	-.3334	-.2905	-.2427	-.2035
.754	.0015	-.0053	-.0059	-.0082	-.0056	-.0050
.928	-.0009	.0070	.0037	.0043	.0059	-.0024

CAL T14-053 1A36 02 + T' + S1 UPPER MPS NOZZLE   (AUFA05)   (17 NOV 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES	BETA	=	.000	POWER = .000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES	GP1	=	11.000	GY1 = -9.000
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES	GP2	=	.000	GY2 = -9.000
SCALE = .0190 SCALE		GP3	=	.000	GY3 = .000

MACH NO. 1.203   SECTION(1) UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCNMDX

X/DE	GRADIENT	ALPHA -8.1010	-4.0380	-.0110	4.0030	6.0180
.058	-.1652	.7400	.6671	.5524	.4856	.4741
.232	-.1805	.8902	.7289	.6390	.5949	.6246
.406	-.1287	.5530	.5197	.4380	.3778	.3753
.580	-.0959	.4683	.3874	.3376	.2820	.2364
.754	-.0014	.0052	.0058	.0081	.0056	.0049
.928	.0007	-.0057	-.0030	-.0035	-.0048	-.0019

CAL T14-053 IA36 02 + T1 + S1 UPPER MPS NOZZLE   (AUFA05)   (17 NOV 73)

REFERENCE DATA				PARAMETRIC DATA			
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	BETA =	.000	POWER =	.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	GP1 =	11.000	GY1 =	-9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP2 =	.000	GY2 =	-9.000
SCALE =	.0190 SCALE			GP3 =	.000	GY3 =	.000

MACH NO.   1.203   SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCY/DX

X/DE	GRADIENT	ALPHA	-8.1010	-4.0380	-.0110	4.0030	6.0180
.058	.0677		-.3218	-.2735	-.2156	-.1624	-.1554
.232	.0040		-.0756	-.0152	-.0321	-.0257	-.0023
.406	.0030		-.0121	-.0364	-.0450	-.1249	-.0921
.580	.0136		-.0463	-.0551	-.0576	-.0530	-.0478
.754	.0029		-.0183	-.0116	-.0120	-.0053	-.0044
.928	.0016		-.0082	-.0063	-.0032	-.0018	-.0040

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 449

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE   (AUFA05)   (17 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 49.4000 SQ.FT.   XMRP = 158.0000 INCHES   BETA =   .000   POWER =   .000
LREF = 90.7000 INCHES   YMRP =   .0000 INCHES   GP1   = 11.000   GY1   = -9.000
BREF = 90.7000 INCHES   ZMRP =   .0000 INCHES   GP2   =   .000   GY2   = -9.000
SCALE =   .0190 SCALE   GP3   =   .000   GY3   =   00

MACH NO.   1.203   SECTION(1) UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCYNDX

X/DE	GRADIENT	ALPHA -8.1010	-4.0380	-.0110	4.0030	6.0180
.058	-.1141	.5419	.4606	.3630	.2735	.2617
.232	-.0061	.1142	.0245	-.0485	-.0389	.0035
.406	.0041	-.0431	-.0167	.0041	.1824	.1339
.580	-.0159	.0539	.0640	.0669	.0616	.0555
.754	-.0028	.0180	.0114	.0118	.0052	.0044
.928	-.0013	.0067	.0051	.0026	.0015	.0033

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (AUFA06)   (17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.
LREF	=	90.7000 INCHES
BREF	=	90.7000 INCHES
SCALE	=	.0190 SCALE

XMRP = 158.0000 INCHES
YMRP = .0000 INCHES
MRP = .0000 INCHES

PARAMETRIC DATA

ALPHA	=	.000	POWER	=		.000
GP1	=	11.000	GY1	=		-9.000
GP2	=	.000	GY2	=		-9.000
GP3	=	.000	GY3	=		.000

MACH NO.   1.202   SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 /   1.000

UPPER MPS NOZZLE

DCN/DX

X/DE	GRADIENT BETA	-6.0790	-3.0510	.0000	3.0510	6.0790
.058	.0803	-.2192	-.2451	-.2678	-.4167	-.4927
.232	.1249	-.3936	-.3812	-.3323	-.4618	-.5585
.406	.1777	-.5034	-.5422	-.3549	-.3752	-.4250
.580	.0678	-.1192	-.2067	-.3248	-.2267	-.2382
.754	-.0014	-.0056	.0043	.0059	.0264	.0995
.928	.0003	-.0005	-.0010	.0039	.0123	.0133

CAL T14-053 IA36 02 + T1 + S1 UPPER MPS NOZZLE   (AUFA06)   (17 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH NO.   1.202   SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCNMDX

X/DE	GRADIENT	BETA -6.0790	-3.0510	.0000	3.0510	6.0790
.058	-.1353	.3691	.4127	.4510	.7017	.8297
.232	-.1886	.5944	.5755	.5018	.6973	.8434
.406	-.1380	.3902	.4211	.1637	.2906	.3298
.580	-.0787	.1385	.2402	.3774	.2634	.2768
.754	.0014	.0055	.0043	.0058	.0261	.0983
.928	-.0003	-.0004	.0008	.0032	-.0100	-.0108

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 UPPER MPS NOZZLE

(AUFA06)   (17 NOV 73)

REFERENCE DATA

		PARAMETRIC DATA		
SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES	ALPHA =	.000	POWER = .000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES	GP1 =	11.000	GY1 = -9.000
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES	GP2 =	.000	GY2 = -9.000
SCALE = .0190 SCALE		GP3 =	.000	GY3 = .000

MACH NO.   1.202   SECTION(1)   UPPER MPS NOZZLE

SECTION LIMITS   .000 / 1.000

DCY/DX

X/DE	GRADIENT	BETA -6.0790	-3.0510	.0000	3.0510	6.0790
.058	.0191	-.0172	-.0584	-.1014	-.2600	-.3546
.232	-.0262	.0709	.0801	.0759	-.0619	-.1632
.406	-.0220	.0422	.0670	.1292	-.0051	-.0276
.590	.0014	.0116	-.0044	-.0311	-.0064	-.0748
.754	-.0038	-.0021	-.0117	-.0124	-.0023	-.0035
.928	.0003	-.0015	-.0010	-.0037	-.0022	-.0024

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

(AUFA06)   (17 NOV 73)

REFERENCE DATA

SREF = 49.4000 SQ.FT.   XMRP = 158.0000 INCHES
LREF = 90.7000 INCHES   YMRP = .0000 INCHES
BREF = 90.7000 INCHES   ZMRP = .0000 INCHES
SCALE = .0190 SCALE

PARAMETRIC DATA

ALPHA = .000   POWER = .000
GP1 = 11.000   GY1 = -9.000
GP2 = .000   GY2 = -9.000
GP3 = .000   GY3 = .000

MACH NO.   1.202   SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

X/DE	GRADIENT BETA	DCYNDX				
		-6.0790	-3.0510	.0000	3.0510	6.0790
.058	-.0322	.0290	.0983	.1708	.4378	.5971
.232	-.0396	-.1071	-.1209	-.1146	.0935	.2495
.406	-.0138	.0751	.0420	.0759	.1666	.1966
.580	-.0017	-.0135	.0051	.0362	.0772	.0869
.754	-.0038	.0020	.0116	.0122	.0023	.0035
.928	-.0003	.0013	.0008	.0030	.0018	.0020

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + T1 + S1 UPPER MPS NOZZLE

(AUFA07)

PARAMETRIC DATA

REFERENCE DATA

SREF = 49.4000 SQ.FT.   XMRP = 158.0000 INCHES
LREF = 90.7000 INCHES   YMRP = .0000 INCHES
BREF = 90.7000 INCHES   ZMRP = .0000 INCHES
SCALE = .0190 SCALE

BETA =	.000	POWER = 1.000
OPR =	28.310	SRMPR = 2.020
GP1 =	11.000	GY1 = -9.000
GP2 =	.000	GY2 = -9.000
GP3 =	.000	GY3 = -9.000

SECTION LIMITS   .000 / 1.000

MACH NO.   1.199   SECTION(1)   UPPER MPS NOZZLE

DCN/DX

X/DE	GRADIENT	ALPHA	-8.1080	-4.0750	-.0230	4.0170	6.0280
.058	.0953		-.4684	-.3883	-.3111	-.2773	-.2440
.232	.1197		-.5616	-.4879	-.4077	-.3597	-.3592
.406	.1214		-.5373	-.4947	-.4605	-.3608	-.3433
.580	.0784		-.4027	-.3193	-.2740	-.1958	-.1600
.754	.0001		.0091	-.0003	-.0004	-.0072	-.0037
.928	-.0014		.0106	.0055	.0031	-.0006	.0007

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

(AUFA07)   (17 NOV 73)

REFERENCE DATA

							PARAMETRIC DATA			
SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES					
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES		BETA	=	.000	POWER = 1.000
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES		OPR	=	28.310	SRMPR = 2.020
SCALE	=	.0190 SCALE					GP1	=	11.000	GY1 = -9.000
							GP2	=	.000	GY2 = -9.000
							GP3	=	.000	GY3 = -9.000

MACH NO.   1.199   SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCNMDX

X/DE	GRADIENT	ALPHA	-8.1080	-4.0750	-.0230	4.0170	6.0280
.058	-.1605		.7888	.6539	.5239	.4670	.4109
.232	-.1808		.8481	.7367	.6155	.5432	.5424
.406	-.0868		.4160	.3537	.2952	.1676	.1440
.580	-.0911		.4679	.3711	.3183	.2321	.1959
.754	-.0001		-.0090	.0003	.0004	.0071	-.0037
.928	.0011		-.0086	-.0045	-.0025	.0005	-.0206

DATE 05 NOV 75　　　TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE

(AUFA07)　(17 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	POWER =	1.000
OPR =	28.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH NO.　1.199　SECTION(1) UPPER MPS NOZZLE　SECTION LIMITS　.000 / 1.000

DCY/DX

X/DE	GRADIENT	ALPHA	-8.1080	-4.0750	-.0230	4.0170	6.0280
.058	.0634		-.3115	-.2582	-.1838	-.1439	-.1419
.232	-.0092		.0015	.0374	.0582	.0673	.0451
.406	-.0171		.0641	.0698	.0890	.0428	.0780
.580	.0133		-.0313	-.0541	-.0523	-.0221	-.0184
.754	.0032		-.0154	-.0130	-.0101	-.0103	-.0086
.928	.0019		-.0023	-.0076	-.0080	-.0060	-.0076

CAL T14-053 I, 46 O2 + T1 + S1 UPPER MPS NOZZLE   (AUFA07)   (17 NOV 73)

REFERENCE DATA

		PARAMETRIC DATA			
SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES	BETA	=	.000	POWER = 1.000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES	OPR	=	28.310	SRMPR = 2.020
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES	GP1	=	11.000	GY1 = -9.000
SCALE = .0190 SCALE		GP2	=	.000	GY2 = -9.000
		GP3	=	.000	GY3 = -9.000

MACH NO.   1.199   SECTION(1) UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCYNDX

X/DE	GRADIENT	ALPHA				
		-8.1080	-4.0750	-.0230	4.0170	6.0280
.058	-.1067	.5246	.4347	.3095	.2424	.2390
.232	.0139	-.0023	-.0565	-.0879	-.1017	-.0681
.406	.0229	-.0856	-.0932	-.1190	-.0572	-.1043
.580	-.0154	.0363	.0629	.0607	.0257	.0214
.754	-.0032	.0152	.0128	.0100	.0101	.0085
.928	-.0015	.0019	.0062	.0065	.0049	.0062

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (AUFA08)   (17 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA		
SPEF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	ALPHA =	.000	POWER = 1.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	O?R =	28.310	SQMRR = 2.020
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP1 =	11.000	GY1 = -9.000
SCALE =	0.190 SCALE			GP2 =	.000	GY2 = -9.000
				GP3 =	.000	GY3 = -9.000

MACH NO.   1.194   SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCN/DX

X/DE	GRADIENT	BETA	-6.0740	-3.0440	.0000	3.0490	6.0790
.058	.0990		-.2298	-.3012	-.2959	-.3753	-.4844
.232	.1147		-.2976	-.3492	-.3984	-.4266	-.4961
.406	.0300		.0029	-.0913	-.0203	.0061	.0020
.580	.0577		.1002	-.1755	-.2524	-.2410	-.2131
.754	-.0030		-.0060	.0091	.0004	-.0212	-.0852
.968	.0009		.0001	-.0028	.0021	.0134	.0199

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE

(AUFAOB)   (17 NOV 73)

REFERENCE DATA

			PARAMETRIC DATA			
SREF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES	ALPHA =	.000	POWER =	1.000
LREF =	90.7000 INCHES	YMRP = .0000 INCHES	OPR =	28.310	SRMPR =	2.020
BREF =	90.7000 INCHES	ZMRP = .0000 INCHES	GP1 =	11.000	GY1 =	-9.000
SCALE =	.0190 SCALE		GP2 =	.000	GY2 =	-9.000
			GP3 =	.000	GY3 =	-9.000

MACH NO.   1.194   SECTION(1)   UPPER MPS NOZZLE   SECTION LIMITS   .000 / 1.000

DCNMDX

X/DE	GRADIENT BETA	-6.0740	-3.0440	.0000	3.0490	6.0790
.058	-.1666	.3870	.5073	.4983	.6319	.8156
.232	-.1732	.4493	.5273	.5865	.6441	.7492
.406	-.2426	.6546	.7386	.7433	.6339	.6959
.580	-.0670	.1165	.2040	.2933	.2801	.2476
.754	-.0030	.0059	.0090	-.0004	.0210	.0841
.928	-.0007	-.0001	.0023	-.0017	-.0109	-.0162

CAL TI4-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE

(AUFAC8)   (17 NOV 73)

PARAMETRIC DATA

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	
SCALE =	.0190 SCALE			

ALPHA =	.000	FOMER =	1.000
OPR =	28.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-0.000
GP3 =	.000	GY3 =	-9.000

SECTION LIMITS   .000 / 1.000

MACH NO.   1.194   SECTION(1)   UPPER MPS NOZZLE

DCY/DK

X/DE	GRADIENT BETA	-6.0740	-3.0440	.0000	3.0490	6.0730
.058	.0241	-.0640	-.0734	-.1947	-.2736	-.3552
.232	-.0284	.0901	.0865	.0611	.0094	-.1204
.406	.0714	-.2146	-.2173	-.2644	-.3127	-.2592
.580	-.0065	.0110	.0197	.0553	.0794	.0705
.754	.0022	.0051	.0066	.0084	.0131	.0076
.928	-.0004	.0011	.0013	.0049	.0052	.0038

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 UPPER MPS NOZZLE

(AUFA08)   (17 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	POWER =	1.000
OPR =	26.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH NO.   1.194

SECTION LIMITS   .000 / 1.000

SECTION(1)   UPPER MPS NOZZLE

DCYNOX

X/DE	GRADIENT	BETA	-6.0740	-3.0440	.0000	3.0490	6.0790
.058	-.0406		.1078	.1236	.3279	.4608	.5981
.232	.0429		.1360	-.1306	-.0923	.0142	.1818
.406	.0455		.2190	-.1785	-.1562	-.0095	-.0810
.580	.0075		.0127	-.0229	.0643	.0922	.0819
.754	-.0021		.0050	.0065	.0083	.0129	.0075
.929	.0003		-.0009	-.0010	.0040	.0042	-.0031

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + T1 + S1 LOWER LH MPS NOZ.   (AUFB01)   (17 NOV 73)

PARAMETRIC DATA

REFERENCE DATA

SREF =   49.4000 SQ.FT.   XMRP =   158.0000 INCHES   BETA =   .000   POWER =   .000

LREF =   90.7000 INCHES   YMRP =   .0000 INCHES   GP1   =   11.000   GY1   = -9.000

BREF =   90.7000 INCHES   ZMRP =   .0000 INCHES   GP2   =   .000   GY2   = -9.000

SCALE =   .0190 SCALE   GP3   =   .000   GY3   =   .000

MACH NO.   .901   SECTION(1)   LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCN/DX

X/DE	GRADIENT	ALPHA	-8.0880	-4.0490	.0130	4.0050	6.0060
.058	-.0012		.0064	.0050	-.0015	.0079	.0012
.232	-.0004		.0021	.0015	-.0013	.0017	-.0001
.406	.0012		-.0036	-.0048	-.0018	-.0033	-.0020
.580	-.0003		-.0014	-.0013	-.0003	.0002	-.0008
.754	-.0005		.0015	.0020	-.0002	.0012	-.0014
.928	-.0004		.0010	.0014	-.0013	-.0004	-.0006

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (AUFB01)   (17 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH NO.   .901

SECTION(1)   LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCNMDX

X/DE	GRADIENT	ALPHA -8.0880	-4.0490	.0130	4.0050	6.0060
.058	.0021	-.0108	-.0084	.0026	-.0133	-.0020
.232	.0006	-.0031	-.0022	.0020	-.0025	.0001
.406	-.0016	-.0048	.0064	-.0024	.0044	.0027
.580	-.0004	.0016	.0015	.0003	-.0003	.0009
.754	-.0005	-.0015	-.0020	.0001	-.0011	.0014
.928	.0003	-.0008	-.0012	.0010	-.0004	.0005

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.   (AUFB01)   (17 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF	=	49.4000 SG.FT.	XMRP	=	158.0000 INCHES	BETA	=	.000	POWER	=	.000
LPEF	=	90.7000 INCHES	YMRP	=	.0000 INCHES	GP1	=	11.000	GY1	=	-9.000
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES	GP2	=	.000	GY2	=	-9.000
SCALE	=	.0190 SCALE				GP3	=	.000	CY3	=	.000

MACH NO.   .901   SECTION(1)   LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCY/DX

X/DE	GRADIENT	ALPHA	-8.0880	-4.0490	.0130	4.0050	6.0060
.058	.0009		-.0047	-.0038	-.0146	-.0141	-.0097
.232	.0005		-.0004	-.0018	-.0025	-.0009	-.0048
.406	.0005		-.0054	-.0018	-.0006	-.0013	-.0086
.580	-.0009		.0019	.0037	-.0008	-.0043	-.0087
.754	-.0011		.0029	.0043	-.0043	-.0031	-.0049
.928	-.0005		-.0016	.0020	-.0021	-.0026	-.0012

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36) PAGE 465

CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ. (AUFB01) (17 NOV 73)

REFERENCE DATA

PARAMETRIC DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES				BETA	=	.000	POWER	=	.000
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES				GP1	=	11.000	GY1	=	-9.000
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES				GP2	=	.000	GY2	=	-9.000
SCALE	=	.0190 SCALE							GP3	=	.000	GY3	=	.000

MACH NO. .901 SECTION(1) LOWER LH MPS NOZ. SECTION LIMITS .000 / 1.000

DCYNDX

X/DE	GRADIENT	ALPHA	-8.0580	-4.0490	.0130	4.0050	6.0060
.058	-.0016		.0079	.0064	.0245	.0237	.0163
.232	-.0007		.0006	.0028	.0037	.0013	.0072
.406	-.0006		.0073	.0024	.0008	-.0017	.0115
.580	.0011		-.0022	-.0043	.0009	.0050	.0101
.754	.0010		-.0029	-.0042	.0043	.0031	.0048
.928	.0004		.0013	-.0016	.0017	.0022	.0009

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (AUFB02)   (17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

ALPHA	=	.000	POWER	=	.000
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	.000

MACH NO.   .901   SECTION(1)   LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCN/DX

X/DE	GRADIENT	BETA				
		-6.0790	-3.0490	.0000	3.0510	6.0890
.058	.0028	.0015	-.0085	-.0022	.0027	.0091
.232	.0021	.0016	-.0065	-.0011	.0046	.0048
.406	.0016	.0026	-.0048	-.0058	.0026	.0043
.580	.0023	.0017	-.0070	-.0006	.0053	.0089
.754	.0007	.0018	-.0020	-.0014	.0002	.0059
.928	.0000	.0008	-.0000	.0021	.0008	.0034

CAL T14-053 IA36 C2 + T1 + S1 LOWER LH MPS NOZ.　　(AUFB02)　(17 NOV 73)

REFERENCE DATA

SREF	= 49.4000 SQ.FT.	XMRP	= 158.0000 INCHES
LREF	= 90.7000 INCHES	YMRP	= .0000 INCHES
BREF	= 90.7000 INCHES	ZMRP	= .0000 INCHES
SCALE	= .0190 SCALE		

PARAMETRIC DATA

ALPHA	= .000	POWER	= .000
GP1	= 11.000	GY1	= -9.000
GP2	= .000	GY2	= -9.000
GP3	= .000	GY3	= .000

MACH NO.　.901　　SECTION(1)　LOWER LH MPS NOZ.　　SECTION LIMITS　.000 / 1.000

DCNMDX

X/DE	GRADIENT	BETA	-6.0790	-3.0490	.0000	3.0510	6.0890
.058	-.0047		-.0025	.0144	.0037	-.0045	-.0152
.232	-.0032		-.0024	.0098	.0017	-.0069	-.0073
.406	-.0021		-.0034	.0065	.0078	-.0035	-.0058
.580	-.0027		-.0020	.0081	.0007	-.0061	-.0103
.754	-.0007		-.0017	.0020	.0014	-.0002	-.0059
.928	-.0000		-.0007	.0000	-.0017	-.0006	-.0027

CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.　　　(AUFB02)　(17 NOV 73)

PARAMETRIC DATA

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES		ALPHA =	.000	POWER =	.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES		GP1 =	11.000	GY1 =	-9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES		GP2 =	.000	GY2 =	-9.000
SCALE =	.0190 SCALE				GP3 =	.000	GY3 =	.000

MACH NO .901　　　SECTION(1) LOWER LH MPS NOZ.　　　SECTION LIMITS　.000 / 1.000

DCY/DX

X/DE	GRADIENT BETA	-6.0790	-3.0490	.0000	3.0510	6.0890
.058	.0002	-.0000	-.0006	-.0113	-.0134	-.0182
.232	.0002	.0052	-.0005	-.0038	-.0002	-.0054
.406	.0007	.0026	-.0022	-.0029	-.0005	-.0005
.580	.0006	-.0010	-.0017	-.0005	-.0024	-.0003
.754	.0006	-.0007	-.0018	-.0000	-.0029	-.0017
.928	.0011	-.0036	-.0035	-.0022	-.0012	-.0024

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)   PAGE 469

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.   (AUFB02)   (17 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 49.4000 SQ.FT.   XMRP = 158.0000 INCHES   ALPHA =   .000   POWER =   .000
LREF = 90.7000 INCHES   YMRP =   .0000 INCHES   GP1   = 11.000   GY1   = -9.000
BREF = 90.7000 INCHES   ZMRP =   .0000 INCHES   GP2   =   .000   GY2   = -9.000
SCALE =   .0190 SCALE   GP3   =   .000   GY3   =   .000

MACH NO.   .901   SECTION(1) LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCYNDX

X/OE	GRADIENT	BETA -6.0790	-3.0490	.0000	3.0510	6.0890
.058	-.0004	.0001	.0011	.0190	.0225	.0307
.232	-.0002	-.0078	.0007	.0057	.0003	.0031
.406	-.0010	-.0035	.0030	.0039	.0007	.0007
.580	-.0007	.0012	.0020	.0006	.0028	.0003
.754	-.0006	.0007	.0018	.0000	.0029	.0017
.928	-.0009	.0029	.0028	.0018	.0010	.0019

DATE 05 NOV 75　　　TABULATED DATA FOR CAL T14-053 (1A36)

(AUFE03)　(17 NOV 73)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

REFERENCE DATA

			PARAMETRIC DATA		
SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES		BETA =	.000	POWER = 1.000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES		OPR =	36.200	SRMPR = 2.330
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES		GP1 =	11.000	GY1 = -9.000
SCALE = .0190 SCALE			GP2 =	.000	GY2 = -9.000
			GP3 =	.000	GY3 = -9.000

MACH NO.　.897　　SECTION(1)　　LOWER LH MPS NOZ.　　SECTION LIMITS　.000 / 1.000

DCN/CX

X/DE	GRADIENT	ALPHA -8.0880	-4.0380	.0010	4.0260	6.0210
.058	-.000C	.0138	.0019	.0076	.0063	.0042
.232	.0014	-.0099	-.C055	.0014	.0012	-.0005
.406	.0018	-.0112	-.0072	-.0004	.C317	.0041
.580	-.0003	.0007	.0011	.0014	.0071	.0064
.754	.0009	.0015	.0035	.0001	.0027	.0056
.928	-.0001	.0048	.0003	.0025	.0014	.0024

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)   PAGE 471

CAL T14-053 IA36 02 + T1 + S1 LOWER LH MPS NOZ.   (AUFB03)   (17 NOV 73)

REFERENCE DATA

SREF = 49.4000 SQ.FT.   XMRP = 158.0000 INCHES
LREF = 90.7000 INCHES   YMRP =   .0000 INCHES
BREF = 90.7000 INCHES   ZMRP =   .0000 INCHES
SCALE =   .0190 SCALE

MACH NO.   .897

PARAMETRIC DATA

BETA =	.000	POWER =	1.000
OPR =	36.200	SRMPR =	2.330
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

SECTION LIMITS   .000 /   1.000

SECTION(1)   LOWER LH MPS NOZ.

DCNFDX

X/DE	GRADIENT	ALPHA	-8.0880	-4.0380	.0010	4.0260	8.0210
.058	.0008		-.0232	-.0033	-.0128	-.0106	-.0071
.232	-.0021		.0150	.0083	-.0022	-.0018	.0007
.406	-.0024		.0150	.0096	-.0006	-.0023	-.0055
.580	.0003		-.0009	-.0013	-.0016	-.0082	-.0075
.754	-.0009		-.0015	.0035	.0001	-.0027	-.0055
.928	.0001		-.0039	-.0003	-.0020	-.0011	-.0020

DATE 05 NOV 75   TABULATED DATA FOR CAL 714-053 (1A36)

CAL 714-053 (A35 O2 + T1 + S1 LOWER LH MPS NOZ.)   (AUFB03) (17 NOV 73)

PARAMETRIC DATA

REFERENCE DATA					
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	BETA = .000	POWER = 1.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	OPR = 36.200	SRMPR = 2.330
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP1 = 11.000	GY1 = -9.000
SCALE =	.0190 SCALE			GP2 = .000	GY2 = -9.000
				GP3 = .000	GY3 = -9.000

MACH NO.   .897   SECTION(1) LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCY/DX

X/DE	GRADIENT	-8.0880	-4.0380	.0010	4.0260	6.0210
.058	.0011	-.0090	-.0044	-.0065	-.0105	-.0087
.232	.0016	-.0002	-.0064	-.0054	-.0008	-.0040
.406	.0006	-.0022	-.0025	-.0034	-.0039	-.0011
.580	.0011	-.0006	-.0044	-.0013	-.0040	-.0014
.754	.0010	-.0001	-.0039	-.0014	-.0027	-.0022
.928	.0004	-.0019	-.0017	-.0018	-.0028	-.0005

ALPHA

DATE 05 NOV 73   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 473

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (AUFBO3) (17 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA			
SREF =	43.4000 SQ.FT.	XMRP =	158.0000 INCHES	BETA =	.000	POWER =	1.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	OPR =	36.200	SRMPR =	2.330
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP1 =	11.000	GY1 =	-9.000
SCALE =	.0190 SCALE			GP2 =	.000	GY2 =	-9.000
				GP3 =	.000	GY3 =	-9.000

MACH NO.   .897   SECTION(1)   LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCYNOX

X/DE	GRADIENT	ALPHA	-8.0800	-4.0380	.0010	4.0260	6.0210
.058	-.0018		.0151	.0074	.0110	.0076	.0146
.232	-.0024		.0002	.0096	.0081	-.0013	-.0060
.406	-.0008		.0030	.0034	.0046	-.0052	-.0015
.580	-.0013		.0007	.0051	.0015	.0047	.0016
.754	-.0009		-.0001	.0038	.0014	.0027	.0021
.928	-.0003		.0015	.0014	.0015	.0023	.0004

CAL T14-053 IA36 02 + T1 + S1 LOWER LH MPS NOZ.

(AUFB04) (17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SG.FT.	YMRP = 158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP = .0000 INCHES
BREF	=	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE	=	.0190 SCALE	

PARAMETRIC DATA

ALPHA	=	.000	POWER	=	1.000
CPR	=	36.200	SRMPR	=	2.330
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	-9.000

MACH NO. .899 SECTION 1: LOWER LH MPS NOZ. SECTION LIMITS .000 / 1.000

DCN/DX

X/OE	GRADIENT	BETA	-6.0780	-3.0490	.0000	3.0510	6.0880
.050	-.0110		.0610	.0336	.0114	.0021	.0125
.212	.0002		.0067	.0005	-.0033	-.0007	-.0020
.406	.0037		-.0060	-.0112	-.0040	-.0017	-.0024
.580	.0015		-.0088	-.0045	.0054	.0036	.0070
.754	.0003		-.0088	-.0009	.0038	.0006	.0009
.926	-.0003		.0019	.0010	.0022	.0015	.0026

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

(AUFB04)   (17 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	POWER =	1.000
OPR =	36.200	SRMPR =	2.330
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.030	GY3 =	-9.000

MACH NO.   .899   SECTION(1)   LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCNMDX

X/DE	GRADIENT	BETA	-6.0780	-3.0490	.0000	3.0510	6.0880
.058	.0186		-.1038	-.0566	-.0192	-.0035	-.0211
.232	-.0002		-.0101	.0007	.0050	.0010	.0030
.406	-.0049		.0081	.0150	.0053	-.0023	.0033
.580	-.0017		.0102	.0052	-.0061	-.0041	-.0001
.754	-.0003		.0087	.0009	-.0037	-.0006	-.0009
.928	.0003		-.0015	-.0008	-.0018	-.0013	-.0021

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A35)

CAL T14-053 1A36 02 + T1 + 51 LOWER LH MPS NOZ.

(AUFBCW)   (17 NOV 75)

REFERENCE DATA

SREF = 49.4000 SQ.FT.   XMRP = 158.0000 INCHES
LREF = 90.7000 INCHES   YMRP = .0000 INCHES
BREF = 90.7000 INCHES   ZMRP = .0000 INCHES
SCALE = .0190 SCALE

PARAMETRIC DATA

ALPHA =	.000	POWER =	1.000
CPR =	36.200	SRMPR =	2.330
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH NO. .899   SECTION(1)   LOWER LH MPS NOZ.   SECTION LIMITS .000 / 1.000

		DCY/DX				
X/DE	GRADIENT BETA	-6.0780	-3.0490	.0000	3.0510	6.0880
.058	.0049	-.0169	-.0149	.0003	.0097	.0097
.232	-.0020	-.0015	.0062	.0020	.0107	.0142
.406	-.0024	.0039	.0074	.0024	.0052	.0133
.580	-.0017	.0016	.0052	.0005	.0006	.0076
.754	-.0002	.0000	.0005	-.0001	-.0009	.0025
.928	.0005	-.0003	-.0017	-.0006	-.0013	.0004

CAL T14-C53 IA36 02 + T1 + S1 LOWER LH MPS NOZ.   (AUFB04)   (17 NOV 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES	ALPHA =	.000 POWER = 1.000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES	OPR =	36.200 SRMPR = 2.330
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES	GP1 =	11.000 GY1 = -9.000
SCALE = .0190 SCALE		GP2 =	.000 GY2 = -9.000
		GP3 =	.000 GY3 = -9.000

MACH NO.   .899   SECTION(1) LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCYNDX

X/DE	GRADIENT	BETA	-6.0780	-3.0490	.0000	3.0510	6.0880
.058	-.0082		.0285	.0251	-.0005	-.0163	-.0163
.232	.0031		.0025	-.0093	-.0030	-.0161	-.0214
.406	.0032		-.0052	-.0099	-.0032	-.0070	-.0178
.580	.0020		-.0019	-.0060	-.0005	.0007	-.0088
.754	.0002		-.0000	.0005	.0001	.0009	-.0025
.928	-.0004		.0002	.0014	.0005	.0011	-.0003

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.

(AUFB05) (17 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA			
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	BETA =	.000	POWER =	.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	GP1 =	11.000	GY1 =	-9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP2 =	.000	GY2 =	-9.000
SCALE =	0.90 SCALE			GP3 =	.000	GY3 =	.000

SECTION LIMITS   .000 / 1.000

MACH NO. 1.203   SECTION(1) LOWER LH MPS NOZ.

DCN/DX

X/DE	GRADIENT	ALPHA	-8.1010	-4.0380	-.0110	4.0030	6.0180
.058	.0001		.0011	-.0004	-.0012	.0051	.0016
.232	-.0011		.0072	.0043	.0058	.0088	.0145
.406	-.0027		.0093	.0108	.0111	.0149	.0142
.580	-.0021		.0032	.0084	.0104	.0116	.0141
.754	-.0017		.0014	.0070	.0076	.0077	.0108
.928	-.0009		.0029	.0038	.0054	.0055	.0053

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (AUFB05)   (17 NOV 73)

REFERENCE DATA

PARAMETRIC DATA

SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES		BETA =	.000	POWER =	.000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES		GP1 =	11.000	GY1 =	-9.000
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES		GP2 =	.000	GY2 =	-9.000
SCALE = .0190 SCALE			GP3 =	.000	GY3 =	.000

MACH NO.   1.203   SECTION(1)   LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCNMDX

X/DE	GRADIENT	ALPHA -8.1010	-4.0380	-.0110	4.0030	6.0180
.058	-.0002	-.0018	.0007	.0020	.0086	-.0028
.232	.0016	-.0109	-.0064	-.0088	-.0133	-.0220
.406	.0036	-.0124	-.0144	-.0148	-.0199	-.0189
.580	.0024	-.0038	-.0097	-.0121	-.0135	-.0164
.754	.0017	-.0014	-.0059	-.0075	-.0076	-.0107
.928	.0008	-.0024	-.0031	-.0044	-.0045	-.0043

DATE 05 NOV 75 TABULATED DATA FOR CAL T:4-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

REFERENCE DATA

SPREF	= 49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF	= 90.7000 INCHES	YMRP =	.0000 INCHES
BREF	= 90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE	= .0190 SCALE		

PARAMETRIC DATA

BETA	= .000	POWER =	.000
GP1	= 11.000	GY1 =	-9.000
GP2	= .000	GY2 =	-9.000
GP3	= .000	GY3 =	.000

MACH NO. 1.203 SECTION(1) LOWER LH MPS NOZ.

SECTION LIMITS .000 / 1.000

DCY/DX

X/DE	GRADIENT	ALPHA −8.1010	−4.0380	−.0110	4.0030	6.0180
.058	.0033	-.0065	-.0135	-.0155	-.0180	-.0234
.232	-.0028	.0132	.0111	.0098	.0037	.0070
.406	-.0007	.0041	.0028	.0021	.0000	.0007
.580	.0014	-.0039	-.0056	-.0035	-.0056	-.0048
.754	.0020	-.0059	-.0079	-.0071	-.0112	-.0092
.923	.0024	-.0058	-.0096	-.0066	-.0081	-.0086

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 + T1 + S1 LOWER LH MPS NOZ.

(AUFB05)   (17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP = .0000 INCHES
BREF	=	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE	=	.0190 SCALE	

MACH NO.   1.203   SECTION(1) LOWER LH MPS NOZ.

PARAMETRIC DATA

BETA	=	.000	POWER =	.000
GP1	=	11.000	GY1 =	-9.000
GP2	=	.000	GY2 =	-9.000
GP3	=	.000	GY3 =	.000

SECTION LIMITS   .000 / 1.000

DCYNDX

X/OE	GRADIENT ALPHA	-8.1010	-4.0380	-.0110	4.0030	6.0180
.058	-.0056	.0110	.0227	.0261	.0303	.0395
.232	-.0042	-.0199	-.0168	-.0147	-.0056	-.0106
.406	-.0009	-.0055	-.0037	-.0028	-.0000	-.0010
.580	-.0016	.0046	.0065	.0040	.0065	.0010
.754	-.0019	.0058	.0078	.0070	.0111	.0090
.928	-.0019	.0047	.0078	.0053	.0066	.0070

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (A0FB05)   (17 NOV 73)

PARAMETRIC DATA

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	ALPHA =	.000	POWER = .000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	GP1 =	11.000	GY1 = -9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP2 =	.000	GY2 = -9.000
SCALE =	.0190 SCALE			GP3 =	.000	GY3 = .000

MACH NO.   1.202   SECTION(1) LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCN/DX

X/DE	GRADIENT BETA	-6.0790	-3.0510	.0000	3.0510	6.0790
.058	.0007	.0033	-.0022	-.0100	-.0046	-.0008
.232	-.0021	.0064	.0063	.0074	.0098	.0093
.405	-.0035	.0091	.0107	-.1276	.0112	.0136
.580	-.0027	.0068	.0081	.0085	.0098	.0130
.754	-.0022	.0035	.0056	.0062	.0072	.0066
.928	-.0010	.0016	.0032	.0023	.0046	.0031

CAL T14-053 1A36 C2 + T1 + S1 LOWER LH MPS NOZ.

(AUFB06)   (17 NOV 73)

REFERENCE DATA			PARAMETRIC DATA			
SREF =	49.4000 SQ.FT.	XMRP = 158.0000 INCHES	ALPHA =	.000	POWER =	.000
LREF =	90.7000 INCHES	YMRP = .0000 INCHES	GP1 =	11.000	GY1 =	-9.000
BREF =	90.7000 INCHES	ZMRP = .0000 INCHES	GP2 =	.000	GY2 =	-9.000
SCALE =	.0190 SCALE		GP3 =	.000	GY3 =	.000

MACH NO.   1.202   SECTION(1)   LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCNMDX

X/DE	GRADIENT	BETA	-6.0790	-3.0510	.0000	3.0510	6.0790
.058	-.0012		.0055	.0038	.0168	.0079	.0013
.232	.0031		-.0097	-.0095	-.0112	-.0148	-.0140
.406	.0047		-.0122	-.0144	.1704	-.0149	-.0182
.580	.0031		-.0079	-.0095	-.0099	-.0113	-.0151
.754	.0021		-.0035	-.0066	-.0061	-.0071	-.0065
.928	.0008		-.0013	-.0026	-.0019	-.0038	-.0025

DATE 03 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

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(17 NOV 75)

CAL T14-053 IA25 02 + T1 + S1 LOWER LH MPS NOZ.

REFERENCE DATA

SPEF = 49.4000 SQ.FT.   XMRP = 158.0000 INCHES
LREF = 90.7000 INCHES   YMRP = .0000 INCHES
BREF = 90.7000 INCHES   ZMRP = .0000 INCHES
SCALE = .0100 SCALE

PARAMETRIC DATA

ALPHA = .000   POWER = .000
GP1 = 11.000   GY1 = -9.000
CP2 = .000   GY2 = -9.000
GP3 = .000   GY3 = .000

MACH NO.   1.202   SECTION LIMITS   .000 / 1.000

SECTION(1)   LOWER LH MPS NOZ.

DCY/DX

X/DE	GRADIENT BETA	-6.0790	-3.0510	.0000	3.0510	6.0790
.058	.0042	-.0098	-.0129	-.0119	-.0263	-.0214
.232	-.0045	.0050	.0137	.0099	.0019	.0077
.406	-.0016	.0012	.0050	.0013	-.0003	.0074
.580	.0013	-.0052	-.0040	-.0046	-.0027	-.0029
.754	.0023	-.0079	-.0070	-.0077	-.0070	-.0071
.928	.0024	-.0078	-.0074	-.0073	-.0080	-.0082

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.　　　(AUFB06)　(17 NOV 73)

REFERENCE DATA

	PARAMETRIC DATA		
SREF = 49.4000 SQ.FT.　XMRP = 158.0000 INCHES			
LREF = 90.7000 INCHES　YMRP = .0000 INCHES	ALPHA =	.000	POWER = .000
BREF = 90.7000 INCHES　ZMRP = .0000 INCHES	GP1 =	11.000	GY1 = -9.000
SCALE = .0190 SCALE	GP2 =	.000	GY2 = -9.000
	GP3 =	.000	GY3 = .000

MACH NO.　1.202　　SECTION(1) LOWER LH MPS NOZ.　　　SECTION LIMITS　.000 / 1.000

DCYNDX

X/DE	GRADIENT BETA	-6.0790	-3.0510	.0000	3.0510	6.0790
.058	-.0071	.0164	.0217	.0201	.0442	.0360
.232	.0068	-.0076	-.0207	-.0150	-.0029	-.0116
.406	.0022	-.0017	-.0067	-.0017	-.0004	-.0099
.580	-.0015	.0061	.0046	.0053	.0032	.0034
.754	-.0023	.0078	.0070	.0076	.0059	.0070
.928	-.0020	.0064	.0060	.0059	.0055	.0066

CAL TIN-053 :A35 O2 + T1 + S1 LOWER LH MPS NOZ.

(AUFB07)   (17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP = .0000 INCHES
BREF	.	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE	=	.0190 SCALE	

PARAMETRIC DATA

BETA	=	.000	POWER	=	.000
OPR	=	28.310	SRMPR	=	2.020
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	-9.000

MACH NO. 1.199

SECTION(1) LOWER LH MPS NOZ.

SECTION LIMITS   .000 / 1.000

DCN/DX

X/DE	GRADIENT ALPHA	-8.1080	-4.0750	-.0230	4.0170	6.0280
.058	-.0137	.0545	.0556	.0622	-.1261	-.1149
.232	-.0046	.0268	.0186	.0098	-.0101	-.0051
.406	.0001	.0071	-.0003	-.0059	-.0003	.0023
.580	-.0005	.0039	.0026	.0012	.0057	.0032
.754	-.0009	.0050	.0037	-.0004	.0125	.0113
.928	-.0022	.0114	.0088	.0076	.0055	.0081

CAL T14-053 IA36 O2 + TI + S1 LOWER LH MPS NOZ.

(AUFB07)   (17 NOV 73)

REFERENCE DATA				PARAMETRIC DATA			
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	BETA =	.000	POWER =	1.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	OPR =	28.310	SRMPR =	2.020
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP1 =	11.000	GY1 =	-9.000
SCALE =	.0190 SCALE			GP2 =	.000	GY2 =	-9.000
				GP3 =	.000	GY3 =	-9.000

MACH NO.   1.199   SECTION (1)   LOWER LH MPS NOZ.   SECTION LIMITS   .000   1.000

DCNMQX

X/OE	GRADIENT	ALPHA	-8.1080	-4.0750	-.0230	4.0170	6.0280
.058	.0230		-.0919	-.0937	-.1047	.2124	.1935
.232	.0069		-.0405	-.0200	-.0148	.0152	.0077
.496	-.0001		-.0095	.0004	.0079	.0004	-.0030
.580	.0007		-.0046	-.0030	.0014	-.0066	-.0037
.754	.0009		-.0050	-.0036	.0003	-.0123	-.0111
.928	.0018		-.0092	-.0072	.0062	-.0045	-.0066

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

(AUFB07)   (17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

BETA	=	.000	POWER	=	1.000
OPR	=	28.310	SRMPR	=	2.020
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	-9.000

MACH NO.   1.199   SECTION (1)   LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCY/DX

X/DE	GRADIENT	ALPHA				
		-8.1080	-4.0750	-.0230	4.0170	6.0280
.058	-.0063	.0258	.0258	.0169	.0221	.0219
.232	-.0077	.0321	.0313	.0303	.0334	.0322
.406	-.0023	.0112	.0095	.0054	.0197	.0079
.580	.0013	-.0045	-.0053	-.0036	-.0064	-.0051
.754	.0028	-.0119	-.0113	-.0099	-.0079	-.0084
.928	.0019	-.0063	-.0077	-.0039	-.0082	-.0064

CAL T14-053 1.56 O2 + T1 + S1 LOWER LH MPS NOZ.   (AUFB07)   (17 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	POWER =	1.000
OPR =	28.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH NO.   1.199   SECTION. 1)   LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCYNDX

X/DE	GRADIENT	ALPHA	-8.1080	-4.0750	-.0230	4.0170	6.0280
.058	.0107		-.0435	-.0434	-.0284	-.0372	-.0368
.232	.0116		-.0485	-.0472	-.0457	-.0504	-.0487
.406	.0031		-.0150	-.0127	-.0072	-.0263	-.0115
.580	-.0015		.0052	.0061	.0041	.0074	.0059
.754	-.0027		.0117	.0112	.0098	.0078	.0083
.928	-.0015		.0051	.0063	.0032	.0056	.0052

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

(AUFBC8) (17 NOV 73)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP = .0000 INCHES
BREF	=	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE	=	.0190 SCALE	

PARAMETRIC DATA

ALPHA	=	.000	POWER =	1.000
OPR	=	28.310	SRMPR =	2.020
GP1	=	11.000	GY1 =	-9.000
GP2	=	.000	GY2 =	-9.000
GP3	=	.000	GY3 =	-9.000

MACH NO.   1.194   SECTION(1)   LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCN/DX

X/DE	GRADIENT BETA	-6.0740	-3.0440	.0000	3.0490	6.0790
.058	.0340	.1134	-.1036	.0528	-.0037	.0245
.232	-.0096	.0423	.0293	.0056	.0047	.0056
.406	.0001	.0021	-.0003	-.0015	-.0023	-.0017
.580	-.0016	.0012	.0049	-.0003	.0074	-.0013
.754	-.0007	-.0019	.0020	.0012	.0004	.0041
.928	.0014	-.0021	-.0041	.0003	-.0114	.0024

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

(AUFB08)   (17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

ALPHA	=	.000	POWER	=	.000
OPR	=	28.310	SRMPR	=	2.020
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	-9.000

MACH NO.   1.194   SECTION LIMITS   .000 / 1.000 $0

SECTION(1)   LOWER LH MPS NOZ.

DCNMDX

X/DE	GRADIENT	BETA	-6.0740	-3.0440	.0000	3.0490	6.0790
.058	-.0573		-.1909	.1745	-.0889	.0063	-.0413
.232	.0146		-.0639	-.0443	-.0085	-.0071	-.0084
.406	-.0001		-.0028	.0003	-.0020	.0031	-.0023
.580	.0019		-.0014	-.0057	.0004	-.0086	.0015
.754	.0007		.0019	-.0020	-.0012	-.0004	-.0040
.928	-.0011		.0017	.0034	-.0003	.0393	-.0019

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER LH MPS NOZ.

REFERENCE DATA

						PARAMETRIC DATA			
SPEF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES	ALPHA	=	.000	POWER	=	1.000
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES	OPR	=	28.310	SRMPR	=	2.000
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES	GP1	=	11.000	GY1	=	-9.000
SCALE	=	.0190 SCALE				GP2	=	.000	GY2	=	-9.000
						GP3	=	.000	GY3	=	-9.000

MACH NO.   1.194   SECTION(1)   LOWER LH MPS NOZ.   SECTION LIMITS   .000 /   1.000

DCY/DX

X/DE	GRADIENT	BETA	-6.0740	-3.0440	.0000	3.0490	6.0790
.058	-.0031		.0238	.0095	.0129	.0323	.0126
.232	-.0105		.0357	.0318	.0274	.0470	.0358
.406	-.0063		.0060	.0192	.0063	.0264	.0302
.580	.0009		-.0140	-.0027	-.0065	.0164	.0114
.754	-.0038		-.0227	-.0116	-.0091	-.0102	-.0032
.928	.0031		-.0130	-.0095	-.0055	-.0086	-.0040

DATE 05 NOV 73   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.

(AUFB08)   (17 NOV 73)

REFERENCE DATA

SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF = 90.7000 INCHES	YMRP = .0000 INCHES
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES
SCALE = .0190 SCALE	

PARAMETRIC DATA

ALPHA	= .000	POWER	= 1.000
OPR	= 28.310	SRMPR	= 2.020
GP1	= 11.000	GY1	= -9.000
GP2	= .000	GY2	= -9.000
GP3	= .000	GY3	= -9.000

MACH NO. 1.194   SECTION(1)   LOWER LH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCYNDX

X/DE	GRADIENT	BETA -6.0740	-3.0440	.0000	3.0490	6.0790
.058	.0053	-.0401	-.0160	-.0217	-.0544	-.0212
.232	.0158	-.0538	-.0481	-.0413	-.0710	-.0541
.406	.0084	-.0080	-.0257	-.0084	-.0352	-.0403
.580	-.0010	.0163	.0032	.0075	-.0191	-.0132
.754	-.0038	.0224	.0115	.0090	.0101	.0032
.928	-.0025	.0105	.0077	.0045	.0070	.0032

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (AUFC01)   (17 NOV 73)

REFERENCE DATA

PARAMETRIC DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES	BETA	=	.000
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES	GP1	=	11.000
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES	GP2	=	.000
SCALE	=	.0190 SCALE				GP3	=	.000

POWER	=	.000
GV1	=	-9.000
GV2	=	-9.000
GV3	=	.000

MACH NO. .901   SECTION(1) LOWER RH MPS NOZ.   SECTION LIMITS .000 / 1.000

DCN/DX

X/DE	GRADIENT ALPHA	-8.0880	-4.0490	.0130	4.0050	6.0060
.058	.0247	-.1107	-.1001	-.0874	-.0884	-.0911
.232	.0201	-.0909	-.0813	-.0729	-.0688	-.0742
.406	.0028	-.0142	-.0112	-.0186	-.0175	-.0159
.580	.0007	.0079	-.0027	.0019	-.0107	-.0074
.754	-.0004	.0035	.0017	.0011	.0036	.0010
.928	.0021	-.0104	-.0085	-.0075	-.0077	-.0166

CAL T14-053 IA36 O2 + TI + SI LOWER RH MPS NOZ.   (AUFC01)   (17 NOV 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES		BETA =	.000	POWER = .000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES		GP1 =	11.000	GY1 = -9.000
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES		GP2 =	.000	GY2 = -9.000
SCALE = .0190 SCALE			GP3 =	.000	GY3 = .000

MACH NO. .901   SECTION(1)   LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCNMDX

X/OE	GRADIENT	ALPHA	-8.0880	-4.0490	.0130	4.0050	6.0060
.058	-.0416		.1865	.1686	.1471	.1489	.1533
.232	-.0303		.1373	.1228	.1101	.1038	.1120
.406	-.0037		.0190	.0149	.0249	.0233	.0212
.580	-.0008		-.0091	.0031	.0022	.0124	.0086
.754	.0004		-.0034	-.0016	.0011	-.0026	.0010
.928	-.0017		.0085	.0070	.0061	.0063	.0135

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

(AUFCO1)   17 NOV 75

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.

PARAMETRIC DATA

REFERENCE DATA

SPREF = 49.4000 SQ.FT.	XMPP = 158.0000 INCHES		BETA = .000	POWER = .000
LREF = 90.7000 INCHES	YMPP = .0000 INCHES		GP1 = 11.000	GY1 = -9.000
BREF = 90.7000 INCHES	ZMPP = .0000 INCHES		GP2 = .000	GY2 =
SCALE = .0190 SCALE			GP3 = .000	GY3 =

SECTION LIMITS   .000   1.000

MACH NO. .901   SECTION(1)   LOWER RH MPS NOZ.

DCY/DX

X/DE	GRADIENT	ALPHA				
		-8.0080	-4.0490	.0130	4.0050	6.0060
.058	.0376	-.1491	-.1524	-.1333	-.1442	-.1421
.232	.0615	-.2440	-.2489	-.2336	-.2501	-.2507
.406	.0236	-.0983	-.1197	-.1197	-.1295	-.1219
.580	-.0032	.0033	.0129	.0154	.0041	.0146
.754	-.0015	.0056	.0061	.0151	.0150	.0161
.928	-.0012	.0056	.0047	.0048	.0065	.0062

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.

(AUFC01)   (17 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA	=	.000	POWER	=	.000
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	.000

MACH NO.   .901

SECTION(1)   LOWER RH MPS NOZ.

SECTION LIMITS   .000 / 1.000

DCYNDX

X/DE	GRADIENT ALPHA	-8.0880	-4.0490	.0130	4.0050	6.0060
.058	-.0634	.2510	.2566	.2245	.2428	.2393
.232	-.0228	.3684	.3759	.3528	.3776	.3786
.406	-.0395	.1314	.1599	.1599	.1730	.1628
.580	.0037	-.0008	-.0150	-.0179	-.0047	-.0169
.754	.0015	-.0005	-.0060	-.0149	-.0148	-.0159
.920	.0009	-.0045	-.0038	-.0039	-.0053	-.0051

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 :A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (AUFCO2) (17 NOV 73)

PARAMETRIC DATA

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	ALPHA =	.000	POWER = .000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	GP1 =	11.000	GY1 = -9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP2 =	.000	GY2 = -9.000
SCALE =	.0190 SCALE			GP3 =	.000	GY3 = .000

MACH NO.   .901   SECTION(1)   LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

CCN/DX

X/DE	GRADIENT BETA	-6.0790	-3.0490	.0000	3.0510	6.0890
.058	.0281	-.0724	-.0856	-.0902	-.0812	-.0846
.232	.0190	-.0509	-.0580	-.0708	-.0804	-.1021
.406	.0053	-.0141	-.0162	-.0158	-.0286	-.0494
.580	.0004	-.0022	-.0012	-.0028	.0002	-.0071
.754	.0000	-.0010	-.0001	.0017	.0070	.0037
.928	.0029	-.0102	-.0088	-.0062	-.0042	.0039

DATE 05 NOV 75　　　　　TABULATED DATA FOR CAL T14-053 (1A36)　　　　　　　PAGE 499

CAL T14-053 (1A36 Q2 + T1 + S1 LOWER RH MPS NOZ.　　　　　(AUFC02)　(17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP =	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE	=	.0190 SCALE		

PARAMETRIC DATA

ALPHA	=	.000	POWER	=	.000
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	.000

MACH NO.　　.901　　　　SECTION(1)　LOWER RH MPS NOZ.　　　　SECTION LIMITS　　.000 / 1.000

DCNMOX

X/DE	GRADIENT BETA	-6.0790	-3.0490	.0000	3.0510	6.0890
.058	-.0473	.1218	.1442	.1519	.1367	.1425
.232	-.0287	.0769	.0876	.1070	.1214	.1541
.406	-.0071	.0188	.0217	.0211	.0382	.0650
.580	-.0005	.0025	.0014	.0032	-.0002	.0083
.754	-.0000	.0010	.0001	-.0016	-.0069	-.0036
.928	-.0023	.0083	.0072	.0051	.0034	-.0031

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

(AUFC02)   C17 NO. 73

REFERENCE DATA

SPEF = 49.000 SQ.FT.   XMRP = 158.0000 INCHES
LREF = 90.7000 INCHES   YMRP =   .0000 INCHES
BREF = 90.7000 INCHES   ZMRP =   .0000 INCHES
SCALE =   .0190 SCALE

PARAMETRIC DATA

ALPHA =   .000   POWER = .
GP1   = 11.000   GY1   = -9. .
GP2   =   .000   GY2   = -9. .
GP3   =   .000   GY3   = .

MACH NO.   .901   SECTION 1) LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCY/DX

X/DE	GRADIENT	BETA	-6.0790	-3.0490	.0000	3.0510	6.0890
.058	.0399	-.1147	-.1215	-.1307	-.1555	-.1756
.232	.0631	-.1754	-.1923	-.2358	-.2926	-.3490
.406	.0303	-.0641	-.0322	-.1134	-.1630	-.2335
.580	-.0023	.0138	.0070	.0087	.0098	.0035
.754	-.0015	.0086	.0044	.0125	.0176	.0209
.928	-.0003	.0048	.0009	.0075	.0059	.0056

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH HPS NOZ.

(AUFC02)   (17 NOV 73)

REFERENCE DATA

			PARAMETRIC DATA		
SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES		ALPHA =	.000	POWER = .000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES		GP1 =	11.000	GY1 = -9.000
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES		GP2 =	.000	GY2 = -9.000
SCALE = .0190 SCALE			GP3 =	.000	GY3 = .000

MACH NO. .901   SECTION(1) LOWER RH HPS NOZ.   SECTION LIMITS   .000 / 1.000

DCYNOX

X/DE	GRADIENT	BETA	-6.0790	-3.0490	.0000	3.0510	6.0890
.058	.061		.1931	.2047	.2202	.2618	.2957
.212	-.0953		.2664	.2904	.3575	.4418	.5255
.406	-.0404		.0856	.1232	.1515	.2178	.3120
.580	.0027		-.0161	-.0082	-.0101	-.0114	.0041
.754	.0014		-.0085	-.0044	-.0124	-.0174	-.0207
.928	.0003		-.0039	-.0008	-.3061	-.0048	-.0045

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

(AUFOO3)   (17 NOV 75

REFERENCE DATA

				PARAMETRIC DATA		
SPEF = 49.4000 SQ.FT.	XMPP = 158.0000 INCHES	BETA =	.000	POWER =	1.000	
LPEF = 90.7000 INCHES	YMPP = .0000 INCHES	OPR =	35.200	SRMPR =	2.330	
BPEF = 90.7000 INCHES	ZMPP = .0000 INCHES	GP1 =	11.000	GY1 =	-9.000	
SCALE = .0190 SCALE		GP2 =	.000	GY2 =	-9.000	
		GP3 =	.000	GY3 =	-9.000	

MACH NO.   .897   SECTION(1)   LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

			DCN/DX				
X/DE	GRADIENT	ALPHA	-8.0880	-4.0380	.0010	4.0260	6.0210
.058	.0232		-.1150	-.0936	-.0855	-.0919	-.0957
.232	.0204		-.0742	-.0824	-.0796	-.0782	-.0722
.406	.0070		-.0181	-.0282	-.0378	-.0395	-.0337
.580	.0002		-.0049	-.0007	-.0101	-.0089	-.0142
.754	-.0019		-.0051	.0076	.0053	.0081	.0081
.928	-.0013		-.0103	.0054	-.0009	.0029	-.0055

DATE 05 NOV 73   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

REFERENCE DATA

					PARAMETRIC DATA		
SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES		
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES		
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES		
SCALE	=	.0190 SCALE					

BETA	=	.000
OPR	=	36.200
GP1	=	11.000
GP2	=	.000
GP3	=	.000

POWER	=	1.000
SRMPR	=	2.330
GY1	=	-9.000
GY2	=	-9.000
GY3	=	-9.000

MACH NO.   .897   SECTION(1)   LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCNMDX

X/DE	GRADIENT	ALPHA	-8.0880	-4.0380	.0010	4.0260	6.0210
.058	-.0390		.1954	.1576	.1439	.1548	.1612
.232	-.0308		.1120	.1244	.1201	.1181	.1090
.406	-.0093		.0241	.0377	.0505	.0528	.0451
.580	-.0002		.0057	.0008	.0118	.0103	.0165
.754	.0019		-.0051	-.0075	-.0053	-.0080	-.0080
.928	.0011		.0084	-.0044	.0007	-.0024	.0053

(AUFC03)   (17 NOV 73)

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

(AUFC03)

PARAMETRIC DATA

REFERENCE DATA

SPEF = 49.4000 SQ.FT.   XMRP = 158.0000 INCHES
LREF = 90.7000 INCHES   YMRP = .0000 INCHES
BREF = 90.7000 INCHES   ZMRP = .0000 INCHES
SCALE = .0190 SCALE

BETA = .000   POWER = 1.000
OPR = 35.200   SRMPR = 2.330
GP1 = 11.000   GY1   = -9.000
GP2 = .000   GY2   = -9.000
GP3 = .000   GY3   = -9.000

SECTION LIMITS   .000 / 1.000

MACH NO.   .897   SECTION(1)   LOWER RH MPS NOZ.

DCY/DX

X/DE	GRADIENT ALPHA	-8.0880	-4.0380	.0010	4.0260	6.0210
.058	.0288	-.1288	-.1163	-.0990	-.1204	-.1219
.232	.0771	-.3193	-.3115	-.3017	-.3223	-.3220
.406	.0388	-.1342	-.1567	-.1712	-.1745	-.1695
.580	-.0025	.0015	.0099	.0083	.0040	.0058
.754	-.0028	.0103	.0114	.0130	.0184	.0182
.928	.0004	.0028	-.0016	-.0020	-.0006	.0027

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (AUFC03)   (17 NOV 73)

REFERENCE DATA				PARAMETRIC DATA			
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES				
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	BETA =	.000	POWER =	1.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	OPR =	36.200	SRMPR =	2.330
SCALE =	.0190 SCALE			GP1 =	11.000	GY1 =	-9.000
				GP2 =	.000	GY2 =	-9.000
				GP3 =	.000	GY3 =	-9.000

MACH NO. .897   SECTION(1)   LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCYNDX

X/DE	GRADIENT ALPHA	-8.0880	-4.0380	.0010	4.0250	6.0210
.058	-.0485	.2169	.1958	.1668	.2028	.2053
.232	-.1165	.4822	.4703	.4555	.4867	.4861
.406	-.0518	.1793	.2093	.2288	.2331	.2264
.580	.0029	-.0018	-.0115	-.0096	-.0046	-.0068
.754	.0028	-.0102	-.0113	-.0128	-.0182	-.0179
.928	-.0003	-.0023	.0013	.0017	.0005	-.0022

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (AJFC04)   (17 NOV 73)

REFERENCE DATA

SPEF = 49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LPEF = 90.7000 INCHES	YMRP =	.0000 INCHES
BREF = 90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE = .0130 SCALE		

PARAMETRIC DATA

ALPHA =	.000	POWER	=	1.000
OPR =	36.200	SRMPR	=	2.330
GP1 =	11.000	GY1	=	-9.000
GP2 =	.000	GY2	=	-9.000
GP3 =	.000	GY3	=	-9.000

SECTION LIMITS   .000 / 1.000

MACH NO. .899   SECTION(1)   LOWER RH MPS NOZ.

DCN/DX

X/DE	GRADIENT BETA	-6.0780	-3.0490	.0000	3.0510	6.0880
.058	.0379	-.1348	-.1156	-.0886	-.0515	-.0341
.232	.0245	-.0844	-.0747	-.0723	-.0661	-.0620
.406	.0125	-.0375	-.0381	-.0367	-.0442	-.0570
.580	.0062	-.0200	-.0190	-.0072	-.0157	-.0161
.754	-.0009	-.0040	.0028	.0082	.0067	-.0004
.928	.0012	-.0106	-.0036	-.0019	.0031	.0026

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ   (AUFC04)   (17 NOV 73)

REFERENCE DATA				PARAMETRIC DATA			
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	ALPHA =	.000	POWER =	1.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	OPR =	36.200	SRMPR =	2.330
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP1 =	11.000	GY1 =	-9.000
SCALE =	.0190 SCALE			GP2 =	.000	GY2 =	-9.000
				GP3 =	.000	GY3 =	-9.000

MACH NO.   .899   SECTION(1)   LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCNMDX

X/DE	GRADIENT	BETA				
		-6.0780	-3.0490	.0000	3.0510	6.0880
.058	-.0639	.2269	.1947	.1492	.0868	.0575
.232	-.0370	.1274	.1128	.1092	.0998	.0937
.406	-.0167	.0501	.0509	.0490	.0590	.0762
.580	-.0072	.0232	.0221	.0083	.0182	.0187
.754	-.0009	.0039	.0028	-.0081	-.0066	.0004
.928	-.0010	.0085	.0029	.0015	-.0025	-.0021

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 C2 + T1 + S1 LOWER RH MPS NOZ.

(AUFC04)   (17 NOV 73)

REFERENCE DATA

					PARAMETRIC DATA	
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	ALPHA =	.000	POWER = 1.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	OPR =	36.200	SRMPR = 2.330
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP1 =	11.000	GY1 = -9.000
SCALE =	.0190 SCALE			GP2 =	.000	GY2 = -9.000
				GP3 =	.000	GY3 = -9.000

MACH NO.   .899   SECTION(1)   LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCY/DX

X/DE	GRADIENT	BETA	-6.0780	-3.0490	.0000	3.0510	6.0880
.058	.0254		-.0904	-.0774	-.0980	-.1451	-.1765
.232	.0819		-.2602	-.2496	-.3017	-.3626	-.4005
.406	.0448		-.1307	-.1367	-.1553	-.2413	-.3169
.580	-.0023		.0074	.0070	.0074	-.0062	-.0252
.754	.0033		.0069	.0100	.0134	.0185	.0160
.928	-.0003		.0002	-.0009	-.0015	-.0002	.0068

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.

(AUFC04) (17 NOV 73)

REFERENCE DATA

							PARAMETRIC DATA		
SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES	ALPHA	=	.000	POWER = 1.000
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES	OPR	=	36.200	SRMPR = 2.330
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES	GP1	=	11.000	GY1 = -9.000
SCALE	=	.0190 SCALE				GP2	=	.000	GY2 = -9.000
						GP3	=	.000	GY3 = -9.000

MACH NC. .899 SECTION(1) LOWER RH MPS NOZ. SECTION LIMITS .000 / 1.000

DCYNDX

X/DE	GRADIENT	BETA	-6.0780	-3.0490	.0000	3.0510	6.0880
.058	-.0429		.1522	.1304	.1650	.2443	.2972
.232	-.1236		.3930	.3769	.4555	.5475	.6048
.406	-.0599		.1745	.1826	.2208	.3223	.4233
.580	.0027		-.0086	-.0081	-.0086	.0072	.0293
.754	.0032		-.0068	-.0099	-.0133	-.0183	-.0158
.928	-.0002		-.0001	.0007	.0012	.0002	-.0055

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.

(AUFC05)   (17 NOV 73)

REFERENCE DATA

					PARAMETRIC DATA		
SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES	BETA =	.000	POWER =	.000
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES	GP1 =	11.000	GY1 =	-9.000
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES	GP2 =	.000	GY2 =	-9.000
SCALE	=	.0190 SCALE				GP3 =	.000	GY3 =	.000

MACH NO.   1.203   SECTION(1) LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCN/DX

X/DE	GRADIENT ALPHA	-8.1010	-4.0380	-.0110	4.0030	6.0180
.058	.0376	-.2100	-.1518	-.1167	-.0919	-.0739
.232	.0299	-.1615	-.1208	-.0822	-.0561	-.0353
.406	.0102	-.0754	-.0413	-.0205	-.0117	-.0077
.580	.0072	-.0433	-.0291	-.0164	-.0092	-.0134
.754	-.0003	.0024	.0013	.0004	-.0009	-.0014
.928	.0017	-.0029	-.0068	-.0099	-.0097	-.0098

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.   (AUFC05)   (17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP = .0000 INCHES
BREF	=	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE	=	.0190 SCALE	

PARAMETRIC DATA

BETA	=	.000	POWER = .000
GP1	=	11.000	GY1 = -9.000
GP2	=	.000	GY2 = -9.000
GP3	=	.000	GY3 = .000

MACH NO.   1.203   SECTION(1)   LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCNMDX

X/DE	GRADIENT	ALPHA -8.1010	-4.0380	-.0110	4.0030	6.0180
.058	-.0633	.3536	.2556	.1965	.1547	.1245
.232	-.0452	.2439	.1824	.1241	.0847	.0533
.406	-.0137	.1007	.0552	.0274	.0157	.0103
.580	-.0084	.0503	.0339	.0191	.0107	.0155
.754	.0003	-.0023	-.0013	-.0004	-.0009	-.0014
.928	-.0014	.0024	.0055	.0080	.0079	.0079

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.   (AUFCO5)   (17 NOV 73)

REFERENCE DATA

SPEF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LPEF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

SECTION LIMITS   .000 / 1.000

MACH NO.   1.203   SECTION(1)   LOWER RH MPS NOZ.

DCY/DX

X/DE	GRADIENT	ALPHA	-8.1010	-4.0380	-.0110	4.0030	6.0180
.058	.0538		-.2884	-.2576	-.2130	-.1999	-.1860
.232	.0769		-.3761	-.3107	-.2583	-.2207	-.1970
.406	.0334		-.1941	-.1350	-.0934	-.0633	-.0481
.580	.0025		.0147	.0103	.0075	.0093	.0090
.754	-.0021		.0087	.0086	.0038	.0052	.0049
.928	-.0018		.0053	.0075	.0066	.0050	.0064

CAL T14-053 (1A36 O2 + T1 + S1 LOWER RH MPS NOZ.)   (AUFC05)   (17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

BETA	=	.000	POWER	=	.000
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	.000

MACH NO. 1.203   SECTION(1) LOWER RH MPS NOZ.   SECTION LIMITS .000 / 1.000

DCYNDX

X/DE	GRADIENT ALPHA	-8.1010	-4.0380	-.0110	4.0030	6.0180
.058	-.1074	.4856	.4338	.3587	.3367	.3132
.232	-.1162	.5678	.4691	.3900	.3333	.2974
.406	-.0447	.2593	.1804	.1248	.0845	.0643
.580	.0030	-.0171	-.0119	-.0087	-.0109	-.0104
.754	.0021	-.0086	-.0085	-.0038	-.0051	-.0049
.928	.0015	-.0043	-.0061	-.0054	-.0041	-.0052

DATE C5 NOV 73   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + TI + SI LOWER RH HPS NOZ.

(AUFC05)   (17 NOV 73)

PARAMETRIC DATA

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	ALPHA =	.000	POWER =	.000
LREF	=	90.7000 INCHES	YMRP =	.0000 INCHES	GP1 =	11.000	GY1 =	-9.000
BREF	=	90.7000 INCHES	ZMRP =	.0000 INCHES	GP2 =	.000	GY2 =	-9.000
SCALE	=	.0190 SCALE			GP3 =	.000	GY3 =	.000

MACH NO.   1.202   SECTION(1)   LOWER RH HPS NOZ.   SECTION LIMITS   .000 / 1.000

DCN/DX

X/DE	GRADIENT	BETA	-6.0790	-3.0510	.0000	3.0510	6.0790
.058		.0284	-.0739	-.0866	-.0719	-.1183	-.1056
.232		.0161	-.0341	-.0491	-.1491	-.1014	-.1182
.406		.0024	-.0077	-.0072	-.1551	-.0432	-.0818
.580		-.0023	-.0128	-.0071	-.0101	-.0079	-.0418
.754		.0011	-.0016	-.0033	-.0016	.0025	-.0027
.928		.0028	-.0078	-.0086	-.0097	-.0065	-.0044

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A38)   PAGE 515

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (AUFC06)   (17 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 49.4000 SQ.FT.   XMRP = 158.0000 INCHES   ALPHA =   .000   POWER =   .000
LREF = 90.7000 INCHES   YMRP =   .0000 INCHES   GP1   = 11.000   GY1   = -9.000
BREF = 90.7000 INCHES   ZMRP =   .0000 INCHES   GP2   =   .000   GY2   = -9.000
SCALE =   .0190 SCALE   GP3   =   .000   GY3   =   .000

MACH NO.   1.202   SECTION(1)   LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCNFDX

X/DE	GRADIENT	BETA -6.0790	-3.0510	.0000	3.0510	6.0790
.098	-.0478	.1245	.1458	.1211	.1993	.1778
.232	-.0243	.0515	.0741	.2252	.1531	.1784
.406	-.0032	.0103	.0097	.2072	.0577	.1093
.580	-.0027	.0149	-.0083	.0117	.0091	.0486
.754	-.0011	.0016	.0032	-.0016	-.0024	-.0027
.928	-.0023	.0063	.0070	.0079	.0053	.0036

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.

(AUFC06)   (17 NOV 73)

REFERENCE DATA

PARAMETRIC DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	ALPHA = .000	POWER = .000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	GP1 = 11.000	GY1 = -9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP2 = .000	GY2 = -9.000
SCALE =	.0190 SCALE			GP3 = .000	GY3 = .000

MACH NO.   1.202   SECTION(1)   LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCY/DX

X/DE	GRADIENT BETA	-6.0790	-3.0510	.0000	3.0510	6.0790
.058	.0554	-.1534	-.1689	-.1272	-.2656	-.3025
.232	.0617	-.1558	-.1883	-.2789	-.3244	-.3759
.406	.0139	-.0288	-.0423	-.0885	-.1582	-.2290
.580	-.0015	.0067	.0046	.0062	-.0039	-.0050
.754	-.0008	.0017	.0024	.0064	.0073	.0102
.928	-.0013	.0028	.0041	.0047	.0050	.0065

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 517

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (AUFC06)   (17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP =	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE	=	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	POWER =	.000
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	.000

MACH NO.   1.202   SECTION(1)   LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCYNDX

X/DE	GRADIENT BETA	-6.0790	-3.0510	.0000	3.0510	6.0790
.058	-.0932	.2584	.2845	.2142	.4472	.5095
.232	-.0932	.2353	.2844	.4212	.4898	.5676
.406	-.0185	.0385	.0565	.1182	.2114	.3059
.580	.0017	-.0078	-.0053	-.0072	.0045	.0058
.754	.0008	-.0017	-.0024	-.0063	-.0072	-.0101
.928	.0011	-.0023	-.0033	-.0038	-.0041	-.0053

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 + T1 + S1 LOWER Fi MPS NOZ.

(AUFC07)   (17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP = .0000 INCHES
BREF	=	90.7000 INCHES	ZMRP = .0000 INCHES
SCALE	=	.0190 SCALE	

PARAMETRIC DATA

BETA	=	.000	POWER =	1.000
OPR	=	28.310	SRMPR =	2.020
GP1	=	11.000	GY1 =	-9.000
GP2	=	.000	GY2 =	-9.000
GP3	=	.000	GY3 =	-9.000

MACH NO.   1.199   SECTION(1)   LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCN/DX

X/DE	GRADIENT	ALPHA	-8.1080	-4.0750	-.0230	4.0170	8.0280
.058	.0084		-.0666	-.0344	-.0033	-.1417	-.1290
.232	.0082		-.0526	-.0335	-.0294	-.0153	-.0060
.406	.0025		-.0293	-.0103	-.0049	.0191	.0186
.580	.0013		-.0203	-.0054	.0089	-.0128	.0134
.754	-.0011		.0081	.0043	-.0010	.0012	-.0000
.928	.0026		-.0013	-.0104	-.0077	.0016	-.0004

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE   519

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

REFERENCE DATA

				PARAMETRIC DATA			
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	BETA =	.000	POWER =	1.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	OPR =	28.310	SRMPR =	2.020
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP1 =	11.000	GY1 =	-9.000
SCALE =	.0190 SCALE			GP2 =	.000	GY2 =	-9.000
				GP3 =	.000	GY3 =	-9.000

MACH NO.   1.199   SECTION(1)   LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCNMDX

X/DE	GRADIENT	ALPHA	-8.1080	-4.0750	-.0230	4.0170	6.0280
.058	-.0142		.1122	.0579	.0056	.2386	.2172
.232	-.0124		.0794	.0506	.0444	.0231	.0091
.406	-.0034		.0392	.0137	.0066	.0255	-.0248
.580	-.0015		.0236	.0063	.0103	.0149	.0156
.754	.0011		-.0080	-.0043	-.0010	-.0011	.0000
.928	-.0021		.0011	.0085	.0063	-.0013	.0003

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (AUFC07)   (17 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	
SCALE =	.0190 SCALE			

PARAMETRIC DATA

BETA =	.000	POWER =	1.000
OPR =	28.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH NO. 1.199   SECTION(1)   LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCY/DX

X/DE	GRADIENT	ALPHA				
		-8.1080	-4.0750	-.0230	4.0170	6.0280
.058	.0747	-.3497	-.3043	-.2668	-.2492	-.2152
.232	.0845	-.4145	-.3445	-.2989	-.2246	-.2200
.406	.0352	-.2281	-.1434	-.1145	-.1417	-.1208
.580	.0052	-.0282	-.0211	-.0209	-.0183	-.0249
.754	.0032	-.0108	-.0128	-.0084	-.0160	-.0096
.928	.0010	-.0058	-.0039	.0002	-.0030	-.0029

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

(AUFC07)   (17 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	POWER =	1.000
OPR =	28.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

MACH NO.   1.199   SECTION(1) LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCYNDX

X/OE	GRADIENT	ALPHA -8.1080	-4.0750	-.0230	4.0170	6.0280
.058	-.1253	.5890	.5125	.4492	.4196	.3624
.232	-.1276	.6259	.5201	.4514	.3392	.3323
.406	-.0470	.3048	.1915	.1529	.1893	.1613
.580	-.0060	.0327	.0246	.0243	.0212	.0290
.754	-.0031	.0107	.0127	.0083	.0158	.0095
.928	-.0008	.0047	.0032	-.0002	.0024	.0024

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.

(AUFC08)   (17 NOV 73)

PARAMETRIC DATA

REFERENCE DATA

SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES	
LREF = 90.7000 INCHES	YMRP = .0000 INCHES	
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES	
SCALE = .0190 SCALE		

ALPHA	=	.000	POWER = 1.000
OPR	=	28.310	SRMPR = 2.020
GP1	=	11.000	GY1 = -9.000
GP2	=	.000	GY2 = -9.000
GP3	=	.000	GY3 = -9.000

MACH NO.   1.194   SECTION(1) LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCN/DX

X/DE	GRADIENT BETA	-6.0740	-3.0440	.0000	3.0490	6.0790
.058	.0747	.0143	-.2272	-.0076	.0230	-.0266
.232	.0062	.0223	-.0187	-.0221	-.0267	-.0641
.406	-.0129	.0208	.0392	-.0056	-.0065	-.0329
.580	-.0019	.0121	.0059	.0050	-.0022	.0056
.754	-.0018	.0084	.0056	.0018	.0183	.0097
.928	.0003	.0015	-.0008	-.0048	.0100	.0033

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (AUTCO8)   (17 NOV 73)

REFERENCE DATA			PARAMETRIC DATA			
SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES		ALPHA =	.000	POWER =	1.000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES		OPR =	28.310	SRMPR =	2.020
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES		GP1 =	11.000	GY1 =	-9.000
SCALE = .0190 SCALE			GP2 =	.000	GY2 =	-9.000
			GP3 =	.000	GY3 =	-9.000

MACH NO.   1.194   SECTION(1) LOWER RH MPS NOZ.   SECTION LIMITS   .000 / 1.000

DCNMDX

X/DE	GRADIENT BETA	-6.0740	-3.0440	.0000	3.0490	6.0790
.058	-.1257	-.0240	.3827	.0128	-.0388	.0448
.232	-.0093	-.0337	.0283	.0334	.0404	.0969
.406	.0172	-.0278	-.0523	.0075	.0086	.0440
.580	.0023	-.0141	-.0069	-.0059	.0025	.0065
.754	.0018	-.0083	-.0055	-.0018	-.0181	-.0096
.928	-.0002	-.0012	.0007	.0039	-.0081	-.0026

CAL T14-053 (A36 O2 + T1 + S1 LOWER RH MPS NOZ.

REFERENCE DATA

SREF	=	49.4000 SQ.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

ALPHA	=	.000	POWER	=	1.000
OPR	=	28.310	SRMPR	=	2.020
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	-9.000

MACH NO.　1.194　　SECTION(1) LOWER RH MPS NOZ.　　SECTION LIMITS　　.000 / 1.000

DCY/DX

X/DE	GRADIENT	BETA	-6.0740	-3.0440	.0000	3.0490	6.0790
.058		.0762	-.2253	-.2321	-.2439	-.3165	-.3194
.232		.0843	-.2378	-.2566	-.2852	-.3673	-.3796
.406		.0500	-.0950	-.1521	-.1089	-.2298	-.2403
.580		.0101	-.0391	-.0307	-.0108	-.0329	-.0446
.754		.0050	-.0212	-.0182	-.0051	-.0093	-.0082
.928		.0006	-.0058	-.0017	.0014	-.0048	-.0087

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 525

CAL T14-053 1A36 O2 + T1 + S1 LOWER RH MPS NOZ.   (AUFC08)   (17 NOV 73)

REFERENCE DATA

SREF =   49.4000 SQ.FT.   XMRP = 158.0000 INCHES
LREF =   90.7000 INCHES   YMRP =   .0000 INCHES
BREF =   90.7000 INCHES   ZMRP =   .0000 INCHES
SCALE =   .0190 SCALE

PARAMETRIC DATA

ALPHA	=	.000	POWER	=	1.000
OPR	=	28.310	SRMPR	=	2.020
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	-9.000

MACH NO.   1.194   SECTION(1)   LOWER RH MPS NOZ.

SECTION LIMITS   .000 / 1.000

DCYNDX

X/DE	GRADIENT BETA	-6.0740	-3.0440	.0000	3.0490	6.0790
.058	-.1284	.3794	.3908	.4108	.5329	.5379
.232	-.1273	.3591	.3874	.4306	.5547	.5732
.406	-.0668	.1269	.2032	.1455	.3070	.3210
.580	-.0117	.0454	.0357	.0126	.0382	.0518
.754	-.0059	.0209	.0180	.0050	.0092	.0081
.928	-.0005	.0047	.0014	-.0012	.0039	.0070

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (DUFA01)   (17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SO.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

BETA	=	.000	POWER	=	.000
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	.000

RUN NO.   O/ O   RN/L = .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	ALPHA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
.901	-8.088	-.15354	-.02364	.15534	188.75213	.22511	.03539	.22788	98.93430
.900	-4.049	-.13762	-.02006	.13907	188.29230	.20332	.03005	.20552	98.40650
.900	.013	-.11603	-.01749	.11734	188.57216	.17141	.02637	.17343	98.74702
.899	4.005	-.11285	-.01297	.11359	186.55409	.16616	.01987	.16734	96.82069
.899	6.006	-.10574	-.01706	.10710	189.16708	.15622	.02617	.15839	99.51042
	GRADIENT	.03399	.00495	-.03435	-46.50341	-.05021	-.00742	-.05076	-24.30390

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (DUFA02)   (17 NOV 73)

REFERENCE DATA

SREF	=	49.4000 SO.FT.	XMRP	=	158.0000 INCHES
LREF	=	90.7000 INCHES	YMRP	=	.0000 INCHES
BREF	=	90.7000 INCHES	ZMRP	=	.0000 INCHES
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

ALPHA	=	.000	POWER	=	.000
GP1	=	11.000	GY1	=	-9.000
GP2	=	.000	GY2	=	-9.000
GP3	=	.000	GY3	=	.000

RUN NO.   O/ O   RN/L = .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	BETA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
.901	-6.079	-.04754	.01015	.04861	167.94971	.07178	-.01293	.07293	79.79216
.900	-3.049	-.08476	-.00501	.08490	183.38.01	.12540	.00937	.12575	94.27174
.901	.000	-.11976	-.01442	.12062	186.86483	.17644	.02190	.17779	97.07540
.900	3.051	-.13070	-.03925	.13647	196.71492	.19131	.05816	.19996	106.90925
.901	6.089	-.17340	-.09084	.19575	207.64986	.25190	.13610	.28632	118.38191
	GRADIENT	.02780	.00164	-.02785	-60.14464	-.04113	-.00307	-.04124	-30.91891

CAL T14-053 1A36 O2 + T1 + S1 UPPER HPS NOZZLE   (DUFA03)   (17 NOV 73)

REFERENCE DATA

SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF = 90.7000 INCHES	YMRP = .0000 INCHES
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES
SCALE = .0190 SCALE	

PARAMETRIC DATA

BETA = .000	POWER = 1.000
CPR = 36.200	SRMPR = 2.330
GP1 = 11.000	GY1 = -9.000
GP2 = .000	GY2 = -9.000
GP3 = .000	GY3 = -9.000

RUN NO. 0/ 0   RN/L = .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	ALPHA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
.897	-8.088	-.19062	-.03532	.19386	190.49685	.27198	.05392	.27727	101.21394
.899	-4.038	-.14575	-.04371	.15216	196.69330	.20839	.06755	.21906	107.95951
.901	.001	-.12501	-.02854	.12825	192.90312	.17774	.04521	.18340	104.27091
.902	4.026	-.13904	-.01954	.14040	187.99886	.16646	.03253	.16961	101.05589
.898	6.021	-.11605	-.01319	.11679	186.48328	.16584	.02257	.16737	97.74886
	GRADIENT	.03609	.01082	-.03768	-48.71058	-.05161	-.01673	-.05425	-26.73589

CAL T14-053 1A36 O2 + T1 + S1 UPPER HPS NOZZLE   (DUFA04)   (17 NOV 73)

REFERENCE DATA

SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES
LREF = 90.7000 INCHES	YMRP = .0000 INCHES
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES
SCALE = .0190 SCALE	

PARAMETRIC DATA

ALPHA = .000	POWER = 1.000
CPR = 36.200	SRMPR = 2.330
GP1 = 11.000	GY1 = -9.000
GP2 = .000	GY2 = -9.000
GP3 = .000	GY3 = -9.000

RUN NO. 0/ 0   RN/L = .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	BETA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
.899	-6.078	-.05950	.01184	.06066	168.74682	.08733	-.01381	.08942	81.01188
.900	-3.049	-.09316	-.00026	.09316	179.83702	.13296	.00332	.13300	91.43170
.899	.000	-.12056	-.02006	.12221	189.44547	.17249	.03322	.17566	100.90291
.898	3.051	-.12390	-.06487	.13986	207.63612	.20656	.10033	.22964	115.90780
.899	6.088	-.17271	-.11316	.20648	213.23317	.27822	.17293	.32759	121.86323
	GRADIENT	.03055	-.00009	-.03055	-58.98230	-.04361	-.00109	-.04362	-29.98744

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (DUFA05)   (17 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 49.4000 SQ.FT.   XMRP = 158.0000 INCHES
LREF = 90.7000 INCHES   YMRP =   .0000 INCHES   BETA =   .000   POWER =   .000
BREF = 90.7000 INCHES   ZMRP =   .0000 INCHES   GP1   = 11.000   GY1   = -9.000
SCALE =   .0190 SCALE   GP2   =   .000   GY2   = -9.000
                                                               GP3   =   .000   GY3   = -9.000

                  RUN NO.   0/ 0   RN/L =   .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	ALPHA	CN	CY	CFR	THETAF	CLM	CYN	CHR	THETAM
1.203	-8.101	-.31607	-.07478	.32480	193.31051	.45098	.10511	.46307	103.11948
1.202	-4.038	-.26949	-.06139	.27639	192.83118	.38497	.08215	.39354	102.04629
1.203	-.011	-.23211	-.04564	.23659	191.17179	.33124	.05870	.33640	100.05004
1.203	4.003	-.20349	-.05091	.20976	194.04541	.29154	.07602	.30129	104.61534
1.202	6.018	-.19931	-.04851	.20512	193.68046	.28723	.07259	.29626	104.18231
	GRAD:ENT	.06574	.01520	-.06845	-47.75413	-.09534	-.02034	-.09748	-25.27149

CAL T14-053 1A36 O2 + T1 + S1 UPPER MPS NOZZLE   (DUFA06)   (17 NOV 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 49.4000 SQ.FT.   XMRP = 158.0000 INCHES
LREF = 90.7000 INCHES   YMRP =   .0000 INCHES   ALPHA =   .000   POWER =   .000
BREF = 90.7000 INCHES   ZMRP =   .0000 INCHES   GP1   = 11.000   GY1   = -9.000
SCALE =   .0190 SCALE   GP2   =   .000   GY2   = -9.000
                                                               GP3   =   .000   GY3   =   .000

                  RUN NO.   0/ 0   RN/L =   .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	BETA	CN	CY	CFR	THETAF	CLM	CYN	CHR	THETAM
1.202	-6.079	-.21081	.01893	.21166	174.86857	.25240	-.00378	.25243	89.14280
1.202	-3.051	-.23269	.01446	.23314	176.44349	.27682	-.00294	.27684	90.60765
1.202	-.000	-.21646	.01308	.21686	176.54125	.24946	.02623	.25094	96.00744
1.203	3.051	-.25029	-.06189	.25783	193.89020	.32590	.12309	.34837	110.69040
1.203	6.079	-.30226	-.09969	.31827	198.25355	.39264	.18127	.43246	114.78212
	GRADIENT	.07627	-.00474	-.07641	-57.83136	-.09073	-.00096	-.09074	-29.69769

CAL T14-053 IA38 02 + T1 + S1 UPPER MPS NOZZLE   (DUFA07)   (17 NOV 73)

REFERENCE DATA

SREF	:	49.4000 SQ.FT.	XMRP	:	158.0000 INCHES
LREF	:	90.7000 INCHES	YMRP	:	.0000 INCHES
BREF	:	90.7000 INCHES	ZMRP	:	.0000 INCHES
SCALE	:	.0190 SCALE			

PARAMETRIC DATA

BETA	:	.000	POWER	:	1.000
OPR	:	28.310	SRMPR	:	2.320
GP1	:	11.000	GY1	:	-9.000
GP2	:	.000	GY2	:	-9.000
GP3	:	.000	GY3	:	-9.000

RUN NO.   0/ 0   RN/L =   .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	ALPHA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
1.199	-6.108	-.32801	-.04231	.33073	187.35004	.41650	.07012	.42236	99.55713
1.198	-4.075	-.28389	-.03145	.28563	186.32141	.35165	.05086	.35531	98.22937
1.197	-.023	-.24484	-.01287	.24518	183.00884	.29213	.02185	.29294	94.27831
1.196	4.017	-.20046	-.00797	.20061	182.27676	.23311	.01405	.23353	93.45037
1.200	6.028	-.18600	-.00487	.18607	191.49869	.21318	.01059	.21344	92.84479
GRADIENT		.06967	.00772	-.07009	-45.72304	-.08629	-.01248	-.08719	-24.10537

CAL T14-053 IA38 02 + T1 + S1 UPPER MPS NOZZLE   (DUFA08)   (17 NOV 73)

REFERENCE DATA

SREF	:	49.4000 SQ.FT.	XMRP	:	158.0000 INCHES
LREF	:	90.7000 INCHES	YMRP	:	.0000 INCHES
BREF	:	90.7000 INCHES	ZMRP	:	.0000 INCHES
SCALE	:	.0190 SCALE			

PARAMETRIC DATA

ALPHA	:	.000	POWER	:	1.000
OPR	:	28.310	SRMPR	:	2.020
GP1	:	11.000	GY1	:	-9.000
GP2	:	.000	GY2	:	-9.000
GP3	:	.000	GY3	:	-9.000

RUN NO.   0/ 0   RN/L =   .03   GRADIENT INTERVAL = -5.00/ -5.00

MACH	BETA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
1.194	-6.074	-.10456	-.02731	.10806	194.63702	.27087	-.04981	.27542	79.57975
1.194	-3.044	-.15119	-.03032	.19420	191.34092	.32973	-.03235	.33131	84.39626
1.198	.000	-.15232	-.07480	.16970	206.15525	.35630	.01723	.35612	92.76863
1.195	3.049	-.15781	-.11228	.19368	215.43158	.36736	.08658	.37743	103.26211
1.197	6.079	-.20810	-.13094	.24586	212.17830	.42856	.12036	.44514	105.68670
GRADIENT		.04967	.00996	-.05066	-62.65838	-.10832	.01633	-.10884	-27.72545

CAL T14-053 IA36 02 + T1 + S1 LOWER LH MPS NOZ.　　　　(DUFB01)　(17 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA	
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	BETA = .000	POWER = .000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	GP1 = 11.000	GY1 = -9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP2 = .000	GY2 = -9.000
SCALE =	.0190 SCALE			GP3 = .000	GY3 = .000

RUN NO.　0/ 0　RN/L = .00　GRADIENT INTERVAL = -5.00/ -5.00

MACH	ALPHA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
.901	-8.088	.00086	-.00107	.00138	308.81519	-.00141	.00180	.00229	218.14247
.900	-4.049	.00052	.00049	.00071	43.46674	-.00079	.00012	.00080	261.42846
.900	.013	-.00040	.00388	.00390	264.16819	-.00053	.00554	.00557	174.49906
.899	4.005	.00106	-.00365	.00381	286.22511	-.00183	.00509	.00541	199.71998
.899	6.006	.00066	-.00629	.00632	263.98892	.00067	.00838	.00841	175.40849
GRADIENT		-.00013	-.00012	-.00018	-10.73518	.00020	-.00003	-.00020	-64.56618

CAL T14-053 IA36 02 + T1 + S1 LOWER LH MPS NOZ.　　　　(DUFB02)　(17 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA	
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	ALPHA = .000	DWER = .000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	GP1 = 11.000	GY1 = -9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP2 = .000	GY2 = -9.000
SCALE =	.0190 SCALE			GP3 = .000	GY3 = .000

RUN NO.　0/ 0　RN/L = .30　GRADIENT INTERVAL = -5.00/ -5.00

MACH	BETA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
.901	-6.079	-.00100	.00057	.00115	150.51607	.00122	-.00126	.00175	44.02800
.900	-3.049	-.00481	-.00170	.00510	199.42819	.00672	-.00188	.00698	105.67396
.901	.000	-.00156	-.00322	.00357	244.11031	.00229	-.00480	.00532	154.51175
.900	3.051	.00272	-.00319	.00419	310.51687	-.00369	.00459	.00589	218.74892
.901	6.089	.00602	-.00441	.00746	323.78248	-.00775	.00668	.01023	229.26558
GRADIENT		.00158	.00056	-.00167	-65.40774	-.00220	-.00062	-.00229	-34.65856

CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.   (DUFB03)   (17 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES		BETA = .000	POWER = 1.000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES		OPR = 36.200	SRMPR = 2.330
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES		GP1 = 11.000	GY1 = -9.000
SCALE = .0190 SCALE			GP2 = .000	GY2 = -9.000
			GP3 = .000	GY3 = -9.000

RUN NO. 0/ 0   RN/L = .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	ALPHA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
.897	-8.088	-.00062	-.00208	.00217	253.47927	.00092	.00309	.00322	163.32370
.899	-4.038	-.00233	-.00392	.00456	239.22865	.00303	.00515	.00597	149.54222
.901	.001	.00187	-.00324	.00374	299.95061	-.00270	.00456	.00530	210.60602
.902	4.026	.00335	-.00229	.00406	325.61424	-.00434	.00305	.00531	234.78455
.898	6.021	.00370	-.00058	.00375	351.08860	-.00442	.00096	.00452	257.79317
	GRADIENT	.00058	.00097	-.00113	-59.24434	-.00075	-.00128	-.00148	-37.03374

CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.   (DUFB04)   (17 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA	
SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES		ALPHA = .000	POWER = 1.000
LREF = 90.7000 INCHES	YMRP = .0000 INCHES		OPR = 36.200	SRMPR = 2.330
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES		GP1 = 11.000	GY1 = -9.000
SCALE = .0190 SCALE			GP2 = .000	GY2 = -9.000
			GP3 = .000	GY3 = -9.000

RUN NO. 0/ 0   RN/L = .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	BETA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
.899	-6.078	.00618	-.00183	.00644	343.52958	-.01222	.00338	.01268	254.54295
.900	-3.049	.00205	.00096	.00227	25.15088	-.00454	-.00066	.00459	278.32976
.899	.000	.00227	.00078	.00240	19.00362	-.00296	-.00116	.00318	291.43341
.898	3.051	.00122	.00376	.00395	72.07551	-.00152	-.00602	.00621	345.82085
.899	6.088	.00279	.00807	.00854	70.89951	-.00384	-.01130	.01193	341.24148
	GRADIENT	-.00067	-.00032	-.00074	-8.24889	.00149	.00022	-.00150	-91.28559

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (DUFB05) (17 NOV 73)

REFERENCE DATA

					PARAMETRIC DATA	
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES		BETA = .000	POWER = .000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES		GP1 = 11.000	GY1 = -9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES		GP2 = .000	GY2 = -9.000
SCALE =	.0190 SCALE				GP3 = .000	GY3 = .000

RUN NO. 0/ 0   RN/L = .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	ALPHA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
1.203	-8.101	.00430	-.00045	.00433	354.05526	-.00562	-.00041	.00564	274.14908
1.202	-4.038	.00582	-.00326	.00667	330.75423	-.00691	.00330	.00766	244.47244
1.203	-.011	.00674	-.00295	.00736	336.34170	-.00793	.00338	.00862	246.91246
1.203	4.003	.00907	-.00610	.01093	326.09036	-.01141	.00746	.01363	236.82576
1.202	6.018	.01044	-.00599	.01204	330.14910	-.01299	.00760	.01505	239.65099
GRADIENT		-.00144	.00081	-.00165	-81.91041	.00171	-.00082	-.00190	-60.54295

CAL T14-053 1A36 O2 + T1 + S1 LOWER LH MPS NOZ.   (DUFB0G) (17 NOV 73)

REFERENCE DATA

					PARAMETRIC DATA	
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES		ALPHA = .000	POWER = .000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES		GP1 = 11.000	GY1 = -9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES		GP2 = .000	GY2 = -9.000
SCALE =	.0190 SCALE				GP3 = .000	GY3 = .000

RUN NO. 0/ 0   RN/L = .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	BETA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
1.202	-6.079	.00429	-.00378	.00572	318.64439	-.00522	.00413	.00666	231.62790
1.202	-3.051	.00572	-.00157	.00593	344.68225	-.00683	.00120	.00693	260.04947
1.202	.000	-.01924	-.00296	.01947	188.74916	.02680	.00308	.02698	96.5516+
1.203	3.051	.00667	-.00630	.00917	316.62116	-.00789	.00856	.01164	222.68380
1.203	6.079	.00777	-.00341	.00849	336.29720	-.00960	.00425	.01050	246.12057
GRADIENT		-.00187	.00051	-.00194	-112.97353	.00224	-.00039	-.00227	-85.23417

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CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.   (DUFB07)   (17 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	-5.00		
OPR =	.000	POWER =	1.000
GP1 =	28.310	SRMPR =	2.020
GP2 =	11.000	GY1 =	-9.000
GP3 =	.000	GY2 =	-9.000
		GY3 =	-9.000

RUN NO. 0/ 0   RN/L = .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	ALPHA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
1.199	-8.108	.01718	.00763	.01880	23.95417	.02525	-.01386	.02881	298.75103
1.198	-4.075	.01372	.00694	.01537	26.83458	.02074	-.01299	.02447	302.06734
1.197	-.023	.01101	.00584	.01246	27.96313	.01756	-.01063	.02052	301.18990
1.196	4.017	.01613	.00889	.01842	151.12893	.02959	-.01533	.03333	62.60772
1.200	6.028	.01344	.00701	.01516	152.46857	.02533	-.01263	.02830	63.49016
GRADIENT		-.00337	-.00170	-.00377	-6.58517	.00509	.00319	-.00601	-74.12695

CAL T14-053 1A36 02 + T1 + S1 LOWER LH MPS NOZ.   (DUFB08)   (17 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	-5.00		
OPR =	.000	POWER =	1.000
GP1 =	28.310	SRMPR =	2.020
GP2 =	11.000	GY1 =	-9.000
GP3 =	.000	GY2 =	-9.000
		GY3 =	-9.000

RUN NO. 0/ 0   RN/L = .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	BETA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
1.194	-6.074	.02394	.00251	.02407	5.97779	-.03927	-.00849	.04017	282.19717
1.194	-3.044	-.00919	.00647	.01124	144.83767	.01655	-.01165	.02024	54.87418
1.199	.000	-.00860	.00431	.00962	26.63188	-.01424	-.00845	.01656	300.66856
1.195	3.049	-.00041	.01743	.01743	91.35155	-.00003	-.02717	.02717	359.93874
1.197	6.079	-.00555	.01427	.01531	68.73465	-.00836	-.02098	.02258	338.28105
GRADIENT		.00302	-.00213	-.00369	-47.58136	-.00544	.00383	-.00665	-18.02700

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL T14-053 (IA36)　　　　PAGE 534

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.　　　　(DUFC01)　(17 NOV 73)

REFERENCE DATA　　　　　　　　　　　　　　　　PARAMETRIC DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	BETA = .000	POWER = .000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	GP1 = 11.000	GY1 = -9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP2 = .000	GY2 = -9.000
SCALE =	.0190 SCALE			GP3 = .000	GY3 = .000

RUN NO. 0/ 0　　RN/L = .00　　GRADIENT INTERVAL = -5.00/ -5.00

MACH	ALPHA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
.901	-8.088	-.03436	-.07998	.08705	246.75172	.05399	.12284	.13418	156.27119
.900	-4.049	-.03244	-.08341	.08950	248.75037	.05030	.12798	.13751	158.54217
.900	.013	-.03019	-.07585	.08163	248.29866	.04646	.11713	.12600	158.36484
.899	4.005	-.03049	-.08379	.08917	250.00687	.04666	.12852	.13673	160.04684
.899	6.006	-.03277	-.08031	.08674	247.80428	.04926	.12421	.13362	158.36573
GRADIENT		.00801	.02060	-.02210	-61.43501	-.01242	-.03161	-.03396	-39.15588

CAL T14-053 IA36 O2 + T1 + S1 LOWER RH MPS NOZ.　　　　(DUFC02)　(17 NOV 73)

REFERENCE DATA　　　　　　　　　　　　　　　　PARAMETRIC DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES	ALPHA = .000	POWER = .000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES	GP1 = 11.000	GY1 = -9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES	GP2 = .000	GY2 = -9.000
SCALE =	.0190 SCALE			GP3 = .000	GY3 = .000

RUN NO. 0/ 0　　RN/L = .00　　GRADIENT INTERVAL = -5.00/ -5.00

MACH	BETA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
.901	-6.079	-.02407	-.05468	.05974	246.24414	.03649	.08569	.09313	156.93034
.900	-3.049	-.02715	-.06591	.07128	247.61135	.04169	.10073	.10901	157.51501
.901	.000	-.02961	-.07616	.08171	248.75410	.04587	.11735	.12600	158.65046
.900	3.051	-.03047	-.09747	.10212	252.64011	.04744	.14904	.15641	162.34180
.901	6.089	-.03915	-.12427	.13029	252.51457	.06005	.16738	.19677	162.22968
GRADIENT		.00893	.02162	-.02338	-81.21068	-.01357	-.03304	-.03575	-51.66120

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 535

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (DUFC03)   (17 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA			
SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES			BETA = .000	POWER = 1.000		
LREF = 90.7000 INCHES	YMRP = .0000 INCHES			OPR = 36.200	SRMPR = 2.330		
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES			GP1 = 11.000	GY1 = -9.000		
SCALE = .0190				GP2 = .000	GY2 = -9.000		
				GP3 = .000	GY3 = -9.000		

RUN NO. 0/ 0   RN/L = .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	ALPHA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
.897	-8.088	-.03467	-.09659	.10263	250.25618	.05388	.14641	.15601	159.79564
.899	-4.038	-.03121	-.09622	.10116	252.03088	.04983	.14503	.15335	161.03676
.901	.001	-.03413	-.09452	.10049	250.14583	.05236	.14164	.15101	159.71244
.902	4.026	-.03385	-.10148	.10698	251.55200	.05276	.15293	.16177	160.96685
.898	6.021	-.03461	-.10001	.10583	250.91115	.05291	.15132	.16030	160.72832
	GRADIENT	.00773	.02383	-.02505	-62.41478	-.01234	-.03592	-.03798	-39.88033

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (DUFC04)   (17 NOV 73)

REFERENCE DATA

				PARAMETRIC DATA			
SREF = 49.4000 SQ.FT.	XMRP = 158.0000 INCHES			ALPHA = .000	POWER = 1.000		
LREF = 90.7000 INCHES	YMRP = .0000 INCHES			OPR = 36.200	SRMPR = 2.330		
BREF = 90.7000 INCHES	ZMRP = .0000 INCHES			GP1 = 11.000	GY1 = -9.000		
SCALE = .0190				GP2 = .000	GY2 = -9.000		
				GP3 = .000	GY3 = -9.000		

RUN NO. 0/ 0   RN/L = .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	BETA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
.899	-6.078	-.04687	-.07978	.09253	239.56718	.07040	.11993	.13907	149.58906
.900	-3.049	-.04005	-.07666	.08649	242.41480	.06161	.11493	.13012	152.03858
.899	.000	-.03221	-.09332	.09873	250.96083	.04989	.14004	.14867	160.39008
.898	3.051	-.02802	-.12552	.12861	257.41491	.04230	.18730	.19201	167.27345
.899	6.088	-.02841	-.15263	.15525	259.45630	.04130	.22612	.22986	159.64854
	GRADIENT	.01314	.02514	-.02837	-79.50633	-.02001	-.03769	-.04267	-49.86506

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (DUFC05)   (17 NOV 73)

REFERENCE DATA

					PARAMETRIC DATA	
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES		BETA = .000	POWER = -.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES		GP1 = 11.000	GY1 = -9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES		GP2 = .000	GY2 = -9.000
SCALE =	.0190 SCALE				GP3 = .000	GY3 = .000

RUN NO. 0/ 0   RN/L = .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	ALPHA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
1.203	-8.101	-.07993	-.13790	.15939	239.90167	.12103	.21200	.24412	150.27728
1.202	-4.038	-.05662	-.11203	.12553	243.18931	.08577	.17378	.19379	153.73170
1.203	-.011	-.03941	-.09044	.09866	246.45766	.05989	.14059	.81	156.92782
1.203	4.003	-.02858	-.07624	.08142	249.45405	.04349	.11983	.12748	160.05162
1.202	6.018	-.02186	-.06727	.07073	251.99963	.03298	.10648	.11147	162.79220
GRAD:ENT		.01402	-.02775	-.03109	-60.22519	-.02124	-.04304	-.04799	-38.07125

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.   (DUFC06)   (17 NOV 73)

REFERENCE DATA

					PARAMETRIC DATA	
SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES		ALPHA = .000	POWER = -.000
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES		GP1 = 11.000	GY1 = -9.000
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES		GP2 = .000	GY2 = -9.000
SCALE =	.0190 SCALE				GP3 = .000	GY3 = .000

RUN NO. 0/ 0   RN/L = .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	BETA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
1.202	-6.079	-.02179	-.05331	.05759	247.76592	.03283	.08433	.09049	158.72642
1.202	-3.051	-.02322	-.06378	.06787	249.99271	.03628	.10021	.10658	160.09760
1.202	.000	-.06690	-.08084	.10487	230.43045	.09664	.12406	.15726	142.08277
1.203	3.051	-.04470	-.12271	.13060	249.38595	.06826	.18816	.20016	160.06189
1.203	6.079	-.05804	-.14895	.15985	248.71135	.08512	.22707	.24250	159.44951
GRADIENT		.00761	.02090	-.02225	-81.93795	-.01189	-.03285	-.03493	-52.47381

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.

(DUFC07)   (17 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	POWER =	1.000
OPR =	28.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

RUN NO. 0/ 0   RN/L = 158.0000 INCHES   .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	ALPHA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
1.199	-8.108	-.02642	-.17220	.17421	261.27469	.04009	.25866	.26175	171.18994
1.198	-4.075	-.01444	-.13724	.13800	263.99317	.02139	.20774	.20884	174.12177
1.197	-.023	-.00636	-.11720	.11737	266.89286	.00960	.17825	.17849	177.04459
1.196	4.017	-.02175	-.10742	.10960	258.55203	.03650	.16133	.16541	167.25200
1.200	6.028	-.01894	-.09803	.09985	259.06512	.03157	.14714	.15049	167.89176
GRADIENT		.00354	.03368	-.03387	-64.78360	-.00525	-.05098	-.05125	-42.72927

CAL T14-053 1A36 02 + T1 + S1 LOWER RH MPS NOZ.

(DUFC08)   (17 NOV 73)

REFERENCE DATA

SREF =	49.4000 SQ.FT.	XMRP =	158.0000 INCHES
LREF =	90.7000 INCHES	YMRP =	.0000 INCHES
BREF =	90.7000 INCHES	ZMRP =	.0000 INCHES
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	POWER =	1.000
OPR =	28.310	SRMPR =	2.020
GP1 =	11.000	GY1 =	-9.000
GP2 =	.000	GY2 =	-9.000
GP3 =	.000	GY3 =	-9.000

RUN NO. 0/ 0   RN/L = 158.0000 INCHES   .00   GRADIENT INTERVAL = -5.00/ -5.00

MACH	BETA	CN	CY	CFR	THETAF	CLM	CYN	CMR	THETAM
1.194	-6.074	.01350	-.10318	.10405	277.45321	-.01844	.15371	.15482	186.84220
1.194	-3.044	-.02763	-.11485	.11813	256.47191	.04943	.17093	.17793	163.87127
1.199	.000	-.00554	-.10797	.10811	267.06041	.00838	.16488	.16509	177.09152
1.195	3.049	.00179	-.15959	.15960	270.64177	-.00089	.23870	.23870	180.21306
1.197	6.079	-.01980	-.16644	.16761	263.21570	.03048	.24778	.24965	172.98735
GRADIENT		.00908	.03773	-.03881	-84.25490	-.01624	-.05615	-.05845	-53.83419

DATE 05 NOV 73

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 T1 S1 LOWER WING POWER OFF

(LUF015) (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.
LREF = 1328.0000 IN.
BREF = 1328.0000 IN.
SCALE = .0190 SCALE

XMRP = 953.0000 IN.
YMRP = .0000 IN.
ZMRP = 400.0000 IN.

PARAMETRIC DATA

BETA = .000   GP1 = 11.000
GY1 = -9.000   GY2 = -9.000
GY3 = -9.000

MACH (1) = .903   ALPHA (1) = -7.760

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400						
.550		.0000		.0000		.0000
.600			.0000			
.700				.0000		.0000
.750	.0000	.0000	.0000			
.800				.0000	.0000	
.850	.0000					
.900			-.2660	.0000		
.950	.0000	.0000	.0000	.0000		

MACH (1) = .901   ALPHA (2) = -3.820

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400						
.550		.0000		.0000		.0000
.600			.0000			
.700				.0000		.0000
.750	.0000	.0000	.0000			
.800				.0000	.0000	
.850	.0000					
.900			-.2550	.0000		
.950	.0000	.0000	.0000	.0000		

DATE 05 NOV 75   TABULATED DATA FOR CAL TIM-053 (1A36)

(CUF015)

CAL TIM-053 1A36 02 "1 S: LOWER WING POWER OFF

MACH (1) = .902   ALPHA (3) = -3.790

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.53-0	.6730	.7800	.8870
X/C						
.050				.0000	.7800	.0000
.400	.0000	.0000	.0000	.0000		
.550						
.600	.0000		.0000	.0000	.0000	
.700						
.800		.0000		.0000		
.900						
.950	.0000		-.2640	.0000		.0000

MACH (1) = .903   ALPHA (4) = -.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.53-0	.6730	.7800	.8870
X/C						
.050	.0000	.0000		.0000	.7800	.0000
.400	.0000		.0000	.0000		
.550						
.600	.0000				.0000	
.700	.0000	.0000	.0000	.0000		.0000
.800						
.900	.0000		-.2410	.0000		

MACH (1) = .901   ALPHA (5) = -.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.53-0	.6730	.7800	.8870
X/C						
.050	.0000	.0000		.0000	.7800	.0000
.400	.0000		.0000	.0000		
.550						
.600	.0000					
.700		.0000	.0000	.0000	.0000	.0000
.800						
.900			-.2530	.0000		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 (A36 02 T1 S1   LOWER WING   POWER OFF

(LUF01S)

MACH (1) = .901   ALPHA (5) = -.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.950	.0000					.0000

MACH (1) = .899   ALPHA (6) = 3.710

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0000		.0000
.400	.0000	.0000	.0000	.0000		
.550			.0000			.0000
.600						
.700						
.750	.0000	.0000	.0000	.0000	.0000	
.800						
.850						
.900				.0000		.0000
.950	.0000		-.2270	.0000		

MACH (1) = .901   ALPHA (7) = 3.700

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0000		.0000
.400	.0000	.0000	.0000	.0000		
.550			.0000			.0000
.600						
.700						
.750	.0000	.0000	.0000	.0000	.0000	
.800						
.850						
.900	.0000		-.2150	.0000		.0000
.950						

DATE 25 NOV 75   TABULATED DATA FOR CAL TH-053 01A3E

                                    CAL TH-053 1435 02 71 5   LOWER WING   POWER OFF   (LUF015)

MACH (1) =   .901   ALPHA (8) =   7.570

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7900	.8870
X/C						
.050				.0000		
.100	.0000			.0000	.0000	.0000
.500		.0000	.0000			
.550						.0000
.600						
.700				.0000		
.750	.0000		.0000	.0000	.0000	
.800						
.850		.0000		.0000		
.900	.0000		-.2060	.0000		.0000
.950				.0000		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (:A36)

CAL T14-053 1A36 02 T: S: LOWER WING   POWER OFF

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 953.0000 IN.	
LREF = 1328.0000 IN.	YMRP = .0000 IN.	
BREF = 1328.0000 IN.	ZMRP = 400.0000 IN.	
SCALE = .0190 SCALE		

(:UF018)   (09 OC* 73)

PARAMETRIC DATA

BETA = .000	OP: = .000	
OY: = -9.000	OY2 = -9.000	
OY3 = -9.000		

MACH (1) = 1.201   ALPHA (1) = -8.100

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400	.0000	.0000	.0000	.0000	.0000	.0000
.550						
.600						
.700	.0000	.0000	.0000	.0000		
.750						
.800						
.850						
.900	.0000	-.4410				.0000
.950		.0000				

MACH (1) = 1.203   ALPHA (2) = -6.120

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8370
X/C						
.050						
.400	.0000	.0000	.0000	.0000	.0000	.0000
.550						
.600						
.700	.0000	.0000	.0000	.0000		
.750						
.800						
.850						
.900	.0000	-.4760				.0000
.950		.0000				

DATE 25 NOV 75   TABULATED DATA FOR CAL 14-053 (1A36)

                        CAL 14-053 1A36 02 T S: LOWER WING   POWER OFF   (UF018)

MACH (1) = 1.202   ALPHA (3) = -4.090

SECTION ( ) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5740	.6730	.7800	.8970
X/C						
.050				.0000	.0000	.0000
.400		.0000	.0000	.0000		
.500	.0000		.0000		.0000	
.600						.0000
.700	.0000	.0000	.0000	.0000	.0000	
.800						
.900	.0000	-.0320	.0000			.0000
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 T1 S1   LOWER WING   POWER OFF

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 953.0000 IN.
LREF = 1328.0000 IN.   YMRP =   .0000 IN.
BREF = 1328.0000 IN.   ZMRP = 400.0000 IN.
SCALE =   .0100 SCALE

PARAMETRIC DATA (LUFO:9)

BETA =   .000   CP1 =   .000
GY1   = -9.000   GY2 = -9.000
GY3   = -9.000

MACH (1) =   .90⸱   ALPHA (1) = -8.100

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2950	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0000		.0000
.400	.0000	.0000		.0000		
.500			.0000			.0000
.600						
.700	.0000	.0000	.0000		.0000	
.750						
.800				.0000		
.850						
.900			-.1680			.0000
.950	.0000			.0000		

MACH (1) =   .901   ALPHA (2) = -6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2930	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0000		.0000
.400	.0000	.0000		.0000		
.550			.0000			.0000
.600						
.700						
.750	.0000	.0000	.0000		.0000	
.800						
.850				.0000		
.900			-.1170			.0000
.950	.0000			.0000		

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA35)

CAL T14-053 IA35 02 ?1 S: LOWER WING POWER OFF

(LUF019)

MACH (1) = .901   ALPHA (3) = -4.090

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0000		.0000
.400		.0000		.0000		
.550	.0000		.0000			.0000
.600						
.700					.0000	
.750	.0000	.0000	.0000	.0000		
.800						
.850						
.900				.0000		
.950	.0000		-.1520	.0000		

MACH (1) = .902   ALPHA (4) = .010

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0000		.0000
.400		.0000		.0000		
.550	.0000		.0000			.0000
.600						
.700					.0000	
.750	.0000	.0000	.0000	.0000		
.800						
.850						
.900	.0000		-.0580	.0000		
.950	.0000			.0000		

MACH (1) = .902   ALPHA (5) = -.010

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0000		.0000
.400		.0000		.0000		
.550	.0000		.0000			.0000
.600						
.700					.0000	
.750	.0000	.0000	.0000	.0000		
.800						
.850						
.900	.0000		-.0880	.0000		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(LUF019)

CAL T14-053 1A35 02 T1 S1   LOWER WING   POWER OFF

MACH (1) = .902   ALPHA (5) = 2.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.950	.0000			.0000		

MACH (1) = .901   ALPHA (6) = 4.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0000		.0000
.400	.0000	.0000	.0000	.0000		
.550						
.600						
.700	.0000	.0000	.0000		.0000	
.750						
.800						
.850	.0000	-.0950	.0000	.0000		.0000
.900						
.950						

MACH (1) = .905   ALPHA (7) = 6.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0000		.0000
.400	.0000	.0000	.0000	.0000		
.550						
.600						
.700	.0000	.0000	.0000		.0000	
.750						
.800						
.850	.0000	-.1530	.0000	.0000		.0000
.900						
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 TI SI LOWER WING POWER OFF   (LUF019)

MACH (1) = .901   ALPHA (8) = 7.030

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.5730	.7800	.8870
X/C						
.050						
.400	.0000	.0000	.0000	.0000	.0000	
.550				.0000		
.600	.0000		.0000	.0000		.0000
.700	.0000	.0000	.0000	.0000		
.750					.0000	
.800	.0000		.0000			
.850						
.900	.0000	.0000	-.2180	.0000		
.950	.0000			.0000		.0000

CAL T14-053 IA36 02 T1 S1   LOWER WING   POWER OFF   (LUF020)   (09 OCT 73)

REFERENCE DATA

SREF	= 2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF	= 1328.0000 IN.	YMRP =	.0000 IN.
BREF	= 1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE	= .0190 SCALE		

PARAMETRIC DATA

ALPHA	= .000	GP1	= 11.000
GY1	= -9.000	GY2	= -9.000
GY3	= -9.000		

MACH (1) = .903   BETA (1) = -6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.5730	.7800	.8870
x/C						
.050						
.400		.0000		.0000		.0000
.550	.0000		.0000	.0000		
.600						
.700						
.750	.0000	.0000	.0000	.0000	.0000	
.800						
.850						
.900	.0000		-.0950	.0000		.0000
.950				.0000		

MACH (1) = .901   BETA (2) = -4.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/C						
.050						
.400		.0000		.0000		.0000
.550	.0000		.0000	.0000		
.600						
.700						
.750	.0000	.0000	.0000	.0000	.0000	
.800						
.850						
.900	.0000		-.0950	.0000		.0000
.950				.0000		

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 C2 T1 S1 LOWER WING POWER OFF (LUF020)

MACH (1) = .902 BETA (3) = -2.030

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400	.0000	.0000	.0000			.0000
.550				.0000		
.600				.0000		
.700					.0000	
.750	.0000	.0000	.0000	.0000		.0000
.800						
.850				.0000		
.900				.0000		
.950	.0000		-.0780	.0000		.0000

MACH (1) = .900 BETA (4) = .000

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400	.0000	.0000	.0000			.0000
.550				.0000		
.600				.0000		
.700					.0000	
.750	.0000	.0000	.0000	.0000		.0000
.800						
.850				.0000		
.900				.0000		
.950	.0000		-.1070	.0000		.0000

MACH (1) = .901 BETA (5) = 4.050

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400	.0000	.0000	.0000			.0000
.550				.0000		
.600				.0000		
.700					.0000	
.750	.0000	.0000	.0000	.0000		.0000
.800						
.850				.0000		
.900				.0000		
.900			-.0620			.0000

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 T1 S1 LOWER WING POWER OFF   (LUF020)

MACH (1) = .901   BETA (5) = 4.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.350			.0000			.0000

MACH (1) = .899   BETA (6) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0000		.0000
.400				.0000		
.550		.0000				
.600			.0000		.0000	
.700	.0000		.0000			
.750				.0000		
.800		.0000				
.850			-.0760			
.900	.0000			.0000		
.950			.0000			.0000

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 T1 S1 LOWER WING POWER ON

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF = 1328.0000 IN.	YMRP =	.0000 IN.
BREF = 1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE = .0190 SCALE		

PARAMETRIC DATA

BETA	=	.000	OPR	= 28.310
SRMPR	=	2.020	GP1	= 11.000
GY1	=	-9.000	GP2	= .000
GY2	=	-9.000	GP3	= .000
GY3	=	-9.000		

MACH (1) = .901   ALPHA (1) = -8.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400				.0000		.0000
.550	.0000			.0000		
.600			.0000			.0000
.700						
.750	.0000		.0000	.0000	.0000	
.800						
.850		.0000				
.900				.0000		
.950	.0000		-.2840	.0000		.0000

MACH (1) = .902   ALPHA (2) = -4.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400				.0000		.0000
.550	.0000	.0000	.0000	.0000		
.600						.0000
.700						
.750	.0000	.0000	.0000	.0000	.0000	
.800						
.850				.0000		
.900						
.950	.0000		-.1900	.0000		.0000

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 02 T1 S1   LOWER WING   POWER ON   (LUF073)

MACH (1) = .901   ALPHA (3) = .000   DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.0000		.0000		.0000
.550			.0000	.0000		
.600					.0000	
.700						
.750	.0000	.0000	.0000	.0000		
.800						
.850				.0000		
.900			-.1840			
.950	.0000			.0000		

MACH (1) = .905   ALPHA (4) = 4.040   DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0000		.0000
.400			.0000	.0000		
.550	.0000				.0000	
.600						
.700			.0000	.0000		
.750	.0000	.0000				
.800				.0000		
.850						
.900				.0000		.0000
.950	.0000		-.2540	.0000		

MACH (1) = .902   ALPHA (5) = 6.020   DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0000		.0000
.400				.0000		
.550		.0000	.0000		.0000	
.600						
.700						
.750		.0000	.0000	.0000		.0000
.800						
.850				.0000		
.900			-.1900			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

PAGE 553

CAL T14-053 IA36 O2 TI S1   LOWER WING   POWER ON   (LUF073)

MACH (1) =   .902   ALPHA (5) =   6.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .5730   .7800   .8870

X/C
.950   .0000   .0000

CAL T14-053 1A36 02 T1 S1   LOWER WING   POWER ON

(LJF077)   (09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	CPR =	36.200
SRMPR =	2.330	GP1 =	11.000
GY1 =	-9.000	GP2 =	.000
GY2 =	-9.000	GP3 =	.000
GY3 =	-9.000		

MACH (1) = 1.206   ALPHA (1) = -8.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.0000		.0000		.0000
.550	.0000		.0000	.0000		
.500					.0000	
.700		.0000				
.750	.0000		.0000		.0000	
.800		.0000				
.850						
.900			-.3000			
.950	.0000			.0000		.0000

MACH (1) = 1.205   ALPHA (2) = -4.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400				.0000		.0000
.550	.0000	.0000	.0000	.0000		
.600					.0000	
.700						
.750	.0000	.0000	.0000	.0000		
.800					.0000	
.850						
.900			-.2820			
.950	.0000			.0000		.0000

DATE 05 NOV 75   TABULATED DATA FOR CAL TIM-C53 (IA36)

(LLF077)

CAL TIM-C53 IA36 02 TI S: LOWER WING   POWER ON

MACH (1) = 1.202   ALPHA (3) = .020

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.0000	.0000	.0000		.0000
.550				.0000		
.600						.0000
.700	.0000		.0000	.0000	.0000	
.750						
.800	.0000	.0000		.0000		
.850						
.900			-.2890	.0000		.0000
.950	.0000			.0000		

MACH (1) = 1.193   ALPHA (4) = 4.050

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0000		.0000
.400		.0000		.0000		
.550	.0000		.0000			.0000
.600						
.700			.0000	.0000	.0000	
.750	.0000	.0000		.0000		
.800						
.850						
.900	.0000		-.2820	.0000		.0000
.950				.0000		

MACH (1) = 1.204   ALPHA (5) = 6.050

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0000		.0000
.400		.0000		.0000		
.550	.0000		.0000			.0000
.600						
.700						
.750	.0000	.0000	.0000	.0000	.0000	
.600						
.850						
.900			-.2870			.0000

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-C53 (1A36)

CAL T14-C53 1A36 02 T1 S1   LOWER WING   POWER CN

(LUF077)

MACH (1) =   1.2C4   ALPHA (5) =   6.05C

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4570   .53+C   .6730   .7800   .8870

X/C
.950   .0000   .0000

CAL TW-953 (1A36 01 T1 S1 LOWER WING POWER OFF   (LOF081)   (09 OCT 73)

REFERENCE DATA   PARAMETRIC DATA

SREF =	2690.0000 SQ.FT.	XMRP = 953.0000 IN.
LREF =	1328.0000 IN.	YMRP = .0000 IN.
BREF =	1328.0000 IN.	ZMRP = 400.0000 IN.
SCALE =	.0190 SCALE	

BETA	=	.000	GP1 = .000
GY1	=	.000	GP2 = .000
GY2	=	-3.500	GP3 = 3.500
GY3	=	3.500	RUDDER = .000

MACH (1) =   1.205   ALPHA (1) =   -8.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.350				-.4760		-.3890
.400		.1240		-.0030		
.550	.0000		.0170			-.3200
.600						
.700				.0000	.0000	
.750	.0000	-.4670	-.2740			
.800				-.2300		
.850						-.3960
.900			-.5770	-.4300		
.950	.0000					

MACH (1) =   1.201   ALPHA (2) =   -4.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.350				-.3320		-.2690
.400				.0610		
.550	.0000	.2000	.0690			
.600						-.0910
.700				.0000	.0000	
.750	.0000	-.4360	-.2240			
.800				-.1750		
.850						-.4010
.900	.0000		-.5430	-.3920		
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(LUFOS1)

CAL T14-053 (A36 01 T1 S) LOWER WING POWER OFF

MACH (1) = 1.204   ALPHA (3) =   .050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.2730		.0800		.1110
.550	.0000		.1300	.1670		
.600						
.700						-.0360
.750	.0300	-.4080	-.1720	.0000	.0000	
.800						
.850						-.2990
.900	.0000		-.5090	-.1200		
.950				-.3510		

MACH (1) = 1.202   ALPHA (4) = 4.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.3660		.3760
.400		.3170	.1790	.2570		
.550	.0000					.0200
.600						
.700						
.750	.0000	-.3730	-.1290	.0000	.0000	
.800						
.850				-.0660		-.3270
.900	.0000		-.4720	-.3080		
.950						

MACH (1) = 1.198   ALPHA (5) = 6.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.4490		.4600
.400		.3250	.1880	.2770		
.550	.0000					.0470
.600						
.700						
.750	.0000	-.3640	-.1180	.0000	.0000	
.800						
.850				-.0500		-.3070
.900	.0000		-.4630			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 C1 :1 S1 LOWER WING POWER OFF   (LUF081)

MACH (1) =   1.199   ALPHA (5) =   6.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

| ETA | .2990 | .4270 | .5340 | .6730 | .7800 | .8870 |

X/C		
.950	.0000	-.2890

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 (A36 O1 T1 S1 LOWER WING POWER OFF)

(LUFC82)   (09 OCT 73)

REFERENCE DATA

SPEF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	-3.500
GY3 =	3.500	RUDDER =	3.500

MACH (1) = 1.202   BETA (1) = -6.080

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		-.1600		-.2530		-.1860
.550			-.1630	-.1320		
.500						
.700	.0000			.0000	.0000	-.1820
.750	.0000	-.3380	-.3220			
.800				-.2770		
.900	.0000		-.4550	-.4440		-.4530
.950	.0000					

MACH (1) = 1.203   BETA (2) = -3.050

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		-.0350	-.0490	-.2060		-.1160
.550	.0000			-.0310		
.600						
.700				.0000	.0000	-.1110
.750	.0000	-.3750	-.2460	-.2050		
.800	.0000					
.900			-.4940	-.3650		-.3760
.950	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(LUF082)

CAL T14-053 1A36 O1 T1 S1   LOWER WING   POWER OFF

MACH (1) = 1.204   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000			.0710		.1110
.400		.2700		.1710		
.550			.1270			-.0380
.600						
.700	.0000			.0000	.0000	
.750			-.1730			
.800	.0000	-.4080		-.1200		
.850						-.3100
.900			-.5080	-.3500		
.950	.0000					

MACH (1) = 1.201   BETA (4) = 3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000			.2280		.1880
.400		.3380		.2110		
.550			.1650			-.0130
.600						
.700	.0000			.0000	.0000	
.750			-.1490			
.800	.0000	-.3680		-.0990		
.850						-.2980
.900			-.4890	-.3320		
.950	.0000					

MACH (1) = 1.203   BETA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000			.3150		.2500
.400		.3870		.2520		
.550			.2000			.0150
.600						
.700	.0000			.0000	.0000	
.750			-.1240			
.800	.0000	-.3450		-.0720		
.850						-.3060
.900			-.4750			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

                        CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER OFF   (LUF082)

MACH (1) = 1.203   BETA (5) =   6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CF

ETA   .2390   .4270   .5340   .6730   .7800   .8870

X/C
.950   .0000   -.3130

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 563

CAL T14-053 1A35 OI T1 S1   LOWER WING   POWER ON   (09 OCT 73)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF	=	1328.0000 IN.	YMRP =	.0000 IN.
BREF	=	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE	=	.0190 SCALE		

(LUF083)

PARAMETRIC DATA

BETA	=	.000	OPR =	36.200
SRMPR	=	2.330	GP1 =	.000
GY1	=	.000	GP2 =	.000
GY2	=	-3.500	GP3 =	.000
GY3	=	3.500	RUDDER =	.000

MACH (1) = 1.199   ALPHA (1) = -8.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1350	.0410	-.4710		-.3740
.550				.0200		
.600						
.750				.0000	.0000	-.3290
.800	.0000	-.3910	-.2610			
.850						
.900			-.5580	-.2190		
.950	.0000			-.4240		-.3860

MACH (1) = 1.196   ALPHA (2) = -4.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.2290	.0980	-.3240		-.2340
.550				.1120		
.600						
.750				.0000	.0000	-.0710
.800	.0000	-.3990	-.2100			
.850						
.900			-.5350	-.1550		
.950	.0000			-.3790		-.3890

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(LUF083)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER ON

MACH (1) = 1.200   ALPHA (3) = -.050   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.1320		.1410
.400		.3010		.1930		
.550			.1520			
.600						-.0180
.700						
.750	.0000		-.1560	.0000	.0000	
.800		-.3920				
.850				-.1030		
.900						-.2940
.950	.0000		-.5030	-.3380		

MACH (1) = 1.196   ALPHA (4) = 3.990   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.3910		.4150
.400		.3510		.2740		
.550			.2070			
.600						.0420
.700						
.750	.0000		-.1130	.0000	.0000	
.800		-.3570				
.850				-.0540		
.900						-.3130
.950	.0000		-.4660	-.2990		

MACH (1) = 1.200   ALPHA (5) = 6.060   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.4870		.5070
.400		.3580		.3090		
.550			.2220			
.600						.0780
.700						
.750	.0000		-.0920	.0000	.0000	
.800		-.3370				
.850				-.0280		
.900						-.2840
.950	.0000		-.4470			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

                                  CAL T14-053 IA36 O: T: S1   LOWER WING   POWER ON

MACH (1) =   1.200   ALPHA (5) =   6.060   (LUF083)

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

E.A   .2990   .4270   .5340   .6730   .7900   .8870

X/C
.950   .0000   -.2720

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (IA36) PAGE 565

CAL T14-053 (A36 O1 T1 S1 LOWER WING POWER ON (LUF084) (09 OCT 73)

REFERENCE DATA

SREF	=	6720.0000	SQ.FT.	XMRP	=	953.0000	IN.
LREF	=	1323.0000	IN.	YMRP	=	.0000	IN.
BREF	=	1328.0000	IN.	ZMRP	=	400.0000	IN.
SCALE	=	.0190	SCALE				

PARAMETRIC DATA

ALPHA	=	.000	CPR	=	35.200
SRMPR	=	2.330	CP1	=	.0000
GY1	=	.000	CP2	=	.0000
GY2	=	-3.500	CP3	=	.0000
GY3	=	3.500	RUDDER	=	.0000

MACH (1) = 1.196 BETA (1) = -6.070

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		-.1330		-.2260		-.1700
.550	.0000		-.1360	-.1210		-.1570
.600						
.700	.0000		-.2682	.0000	.0000	
.750						
.800		-.2610				
.850				-.2690		-.4420
.900	.0000		-.3920			
.950	.0000			-.4270		

MACH (1) = 1.201 BETA (2) = -3.050

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

ETA	.2590	.4270	.5340	.6730	.7800	.86
X/C						
.050						
.400		-.0050	-.0230	-.1250	-.0140	-.0800
.550						
.600						
.700	.0000		-.2270	.0000	.0000	-.0890
.750						
.800		-.3310		-.1910		-.3460
.850						
.900	.0000		-.4710			
.950	.0000			-.3720		

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (A36)

CAL T14-053 1A36 O1 T1 S1 LOWER WING POWER ON (LUF094)

MACH (1) = 1.198 BETA (3) = .000

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.3020		.1110		.1450
.550			.1510	.1910		
.600						-.0190
.700						
.750	.0000		-.1580	.0000	.0000	
.800						
.850		-.3960				
.900			-.5060	-.1670		
.950	.0000			-.3410		-.2920

MACH (1) = 1.199 BETA (4) = 3.050

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.3710		.2640		.2180
.550			.1970	.2360		
.600						.0110
.700						
.750	.0000		-.1230	.0000	.0000	
.800						
.850		-.3440				
.900			-.4790	-.0770		
.950	.0000			-.3160		-.2930

MACH (1) = 1.199 BETA (5) = 6.070

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.4180		.3440		.2900
.550			.2300	.2800		
.600						.0430
.700						
.750	.0000		-.1020	.0000	.0000	
.800						
.850		-.3240				
.900			-.4650	-.0470		
.950						-.2940

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O1 T1 S1   LOWER WING   POWER ON   (LUF0B4)

MACH (1) =   1.199   BETA (5) =   6.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
  .950   .0000   -.2990

TABULATED DATA FOR CAL T14-053 (TA35)

CAL T14-053 IA35 OI TI 5I LOWER WING POWER ON

(LUF085)   (09 OCT 73)

REFERENCE DATA

SREF	=	2690.000 SQ.FT.	XMRP	=	957.0000 IN.
LREF	=	1328.000 IN.	YMRP	=	.0000 IN.
BREF	=	1328.000 IN.	ZMRP	=	400.0000 IN.
SCALE	=	.0100 SCALE			

PARAMETRIC DATA

BETA	=	.000	DAY	=	95.800
BDPDR	=	2.330	DP1	=	.000
GY1	=	.000	DP2	=	.000
GY2	=	3.500	GP3	=	.000
GY3	=	3.500	RUDDER	=	.000

MACH (1) =   1.195   ALPHA (1) =   -8.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2935	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.4720		-.3660
.400	.0000	.4410	.0450	.0270		
.550						-.5200
.600						
.700	.0000		-.2555	.0000	.0000	
.750		-.3610				
.800				-.2200		
.850			-.5390			-.3740
.900	.0000			-.4290		
.950						

MACH (1) =   1.194   ALPHA (2) =   -4.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2935	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.3160		-.2470
.400	.0000	.2250	.0960	.1120		
.550						-.0750
.600						
.700	.0000		-.2050	.0000	.0000	
.750		-.3680				
.800				-.1620		
.850			-.5240			-.3870
.900	.0000			-.3600		
.950						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 71 S1   LOWER WING   POWER ON

(LUF085)

MACH (1) = 1.196   ALPHA (3) = -.060

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/C						
.050						
.400		.3050	.1580	.0940		.190
.550				.1900		
.600						-.0210
.700						
.750	.0000		-.1530	.0000	.0000	
.800						
.850						
.900	.0000	-.3550	-.5030	-.1040		-.2940
.950	.C000			-.3420		

MACH (1) = 1.199   ALPHA (4) = 5.970

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/C						
.050						
.400		.3570	.2290	.620		.5020
.550				.140		
.600						.0820
.700						
.750	.0000		-.0840	.0000	.0000	
.800						
.850						
.900	.0000	-.2860	-.4340	-.0200		-.2800
.950	.0000			-.2680		

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O: T: S: LOWER WING POWER ON

REFERENCE DATA

SREF	= 2690.0000 SQ.FT.	YMRP	=	953.0000 IN.
LREF	= 1328.0000 IN.	YMRP	=	400.0000 IN.
BREF	= 1328.0000 IN.	ZMRP	=	400.0000 IN.
SCALE	= .0130 SCALE			

PARAMETRIC DATA

BETA	=	.000	CPR	=	56.700
SRMPR	=	2.330	GP1	=	.000
GY1	=	.000	GP2	=	.000
GY2	=	-3.500	GP3	=	.000
GY3	=	3.500	RUDDER	=	.000

MACH (1) = 1.191   ALPHA (1) = -8.120

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4070	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1510		-.4720		-.3740
.550	.0000		.0400	.0220		
.600						.5330
.700						
.750	.0000	-.3900	-.2650	.0000	.0000	
.800						
.850			-.2260			
.900						
.950	.0000		-.5670	-.4310		-.3890

MACH (1) = 1.196   ALFHA (2) = -4.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.2770		-.3150		-.2260
.550	.0000		.1030	.1160		
.600						
.700						-.0660
.750	.0000	-.3950	-.2040	.0000	.0000	
.800						
.850			-.1590			
.900						
.950	.0000		-.5360	-.3800		-.3800

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   (LUF086)

CAL T14-053 1A36 O1 T1 S1   LOWER WING   POWER ON

MACH (1) = 1.199   ALPHA (3) = -.070   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7900	.8870
X/C						
.050				.0980		.1590
.400		.3110	.1540	.1960		
.550		.0000				-.0140
.600						
.700	.0000			.0000	.0000	
.750		.0000	-.1540			
.800		-.3750		-.1020		
.850						-.2940
.900			-.5010	-.3370		
.950	.0000					

MACH (1) = 1.199   ALPHA (4) = 3.980   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.4030		.4170
.400		.3620	.2180	.2930		
.550		.0000				.0480
.600						
.700	.0000			.0000	.0000	
.750		.0000	-.1070			
.800		-.3470		-.0440		
.850						-.3070
.900			-.4590	-.2890		
.950	.0000					

MACH (1) = 1.200   ALPHA (5) = 6.060   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.4920		.5200
.400		.3720	.2320	.3140		
.550		.0000				.0820
.600						
.700	.0000			.0000	.0000	
.750		.0000	-.0500			
.800		-.3190		-.0210		
.850						-.2770
.900			-.4370			

DATE 05 NOV 75   TABULATED DATA FOR CAL TIM-C53 (IA36)

CAL TIM-C53 IA36 O1 T1 S1   LOWER WING   POWER ON   (LUF086)

MACH (1) = 1.200   ALPHA (5) =   6.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C

.950   .0000   -.2630

DATE (5 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)   PAGE 574

CAL T14-053 IA36 O1 T1 S1   LOWER WING   POWER ON   (LUF087)   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF = 1328.0000 IN.	YMRP =	.0000 IN.
BREF = 1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE = .0190 SCALE		

PARAMETRIC DATA

BETA =	.000	OPR = 35.200
SRMPR =	3.170	OP1 = .000
GY1 =	.000	OP2 = .000
GY2 =	-3.500	OP3 = .000
GY3 =	3.500	RUDDER = .000

MACH (1) = 1.197   ALPHA (1) = -8.110

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400				-.4690		-.3840
.550		.1160	.0140	.0040		
.600						-.3240
.700						
.750	.0000		-.2860	.0000	.0000	
.800		-.4870				
.850				-.2340		-.3910
.900	.0000		-.5870	-.4360		
.950						

MACH (1) = 1.201   ALPHA (2) = -3.880

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400				-.2880		-.2050
.550		.2450	.1160	.1300		
.600						-.0630
.700						
.750	.0000		-.1960	.0000	.0000	
.800		-.3650				
.850				-.1460		-.3760
.900	.0000		-.5130	-.3670		
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL TI4-053 (1A35)

(CLUF087)

CAL TI4-053 1A35 OI TI S. LOWER WING   POWER ON

MACH (1) = 1.198   ALPHA (3) =   .170

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400	.0000	.3210		.1410		.1650
.550				.2060		
.600			.1770			
.700						-.0060
.750	.0000		-.1440	.0000	.0000	
.800		-.3530				
.850			-.4900	-.0940		-.2900
.900	.0000			-.3310		
.950						

MACH (1) = 1.198   ALPHA (4) =   4.230

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400	.0000	.3710		.4020		.4320
.550			.2330	.2870		
.600						
.700						.0560
.750	.0000		-.0970	.0000	.0000	
.800		-.3160				
.850			-.4510	-.0410		-.3030
.900	.0000			-.2880		
.950						

MACH (1) = 1.197   ALPHA (5) =   5.130

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400	.0000	.3760		.4950		.5190
.550			.2460	.3120		
.600						
.700						.0060
.750	.0000		-.0790	.0000	.0000	
.800		-.2810				
.850			-.4310	-.0170		-.2770
.900	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 TI S1   LOWER WING   POWER ON   (LUF087)

MACH (1) = 1.197   ALPHA (5) = 6.130

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C

| .950 | .0000 | | -.2650 | | | |

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL T14-053 (:A36)

CAL T14-053 IA36 O1 T1 S1　LOWER WING　POWER OFF

(LUF0891　(09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	.000
GY3 =	3.500	RUDDER =	.000

MACH (1) = .899　　ALPHA (1) = -8.070

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		-.0160		-.7010		-.6780
.550			-.2560	-.2290		
.600						
.700		.0000		.0000		-.5170
.750	.0000	-.4140	-.5320			
.800					.0000	
.850				-.5490		
.900	.0000		-.1330			
.950	.0000			-.1560		-.1640

MACH (1) = .902　ALPHA (2) = -4.050

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.0460		-.4530		-.5240
.550			-.1840	-.1530		
.600						
.700		.0000		.0000		-.4130
.750	.0000	-.3900	-.4920			
.800					.0000	
.850				-.5090		
.900	.0000		-.1020			
.950	.0000			-.2130		-.0440

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 (A36 01 T1 S) LOWER WING   POWER OFF   (LUF088)

MACH (1) = .899   ALPHA (3) = -.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

X/C	ETA .2990	.4270	.5340	.6730	.7800	.8870
.050				.0000		-.1010
.400	.0000	.0770	-.1540	-.0840		
.550						-.3630
.600						
.700	.0000		-.4630	.0000	.0000	
.750		-.3930		-.4460		
.800	.0000					-.2790
.850			-.0870	-.2810		
.900	.0000					
.950						

MACH (1) = .900   ALPHA (4) = 4.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

X/C	ETA .2990	.4270	.5340	.6730	.7800	.8870
.050				.2140		.1780
.400	.0000	.1170	-.1080	.0010		
.550						-.2790
.600						
.700	.0000		-.3990	.0000	.0000	
.750		-.3930		-.3760		
.800	.0000					-.4260
.850			-.1640	-.4430		
.900	.0000					
.950						

MACH (1) = .901   ALPHA (5) = 5.970

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

X/C	ETA .2990	.4270	.5340	.6730	.7800	.8870
.050				.2950		.2620
.400	.0000	.1290	-.0820	.0380		
.550						-.2410
.600						
.700	.0000		-.3970	.0000	.0000	
.750		-.4180		-.3480		
.800	.0000					-.4920
.850			-.2300			
.900						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(LUF088)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER OFF

MACH (1) =   .901   ALPHA (5) =   5.970

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C

.950   .0000   -.5130

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 580

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER OFF

REFERENCE DATA

SREF =	2630.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	.000	GP3 =	-3.500
GY3 =	.000	RUDDER =	3.500

MACH (1) = .903   BETA (1) = -6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400				-.2040		-.3210
.550		-.1400	-.2720	-.2000		
.600						-.4200
.700			-.4190	.0000		
.750	.0000	-.2950				
.800				-.4670		
.850			-.1250			-.1190
.900	.0000			-.2840		
.950						

MACH (1) = .899   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400				-.1070		-.2260
.550		-.0950	-.2460	-.1770		
.600						-.3950
.700			-.4530	.0000		
.750	.0000	-.3430				
.800				-.4990		
.850			-.1020			-.2070
.900	.0000			-.2200		
.950						

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 T1 S1 LOWER WING POWER OFF (LJF089)

MACH (1) = .902 BETA (3) = .000

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0030		-.1070
.400	.0000	.0730		-.0860		
.550			-.1460			-.3570
.600						
.700	.0000		-.4420	.0000	.0000	
.750						
.800		-.3900				
.850			-.0840	-.4530		-.2740
.900				-.2710		
.950	.0000					

MACH (1) = .901 BETA (4) = 3.050

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050			.1140			-.0210
.400	.0000	.1390		-.0290		
.550			-.1090			-.3340
.600						
.700	.0000		-.4520	.0000	.0000	
.750						
.800		-.3940				
.850			-.0890	-.4200		-.3280
.900				-.4420		
.950	.0000					

MACH (1) = .901 BETA (5) = 6.090

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050			.1800			.0480
.400	.0000	.1730		.0020		
.550			-.0820			-.3010
.600						
.700	.0000		-.4360	.0000	.0000	
.750						
.800		-.4070				
.850			-.1180			-.3530
.900						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER OFF   (LUF089)

MACH (1) = .901   BETA (5) = 6.C90

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

| ETA | .2990 | .4270 | .5340 | .6730 | .7800 | .8870 |

X/C
.0000
.950	-.4090

DATE 05 NOV 75 TABULATED DATA FOR CAL TI4-053 (1A36)   PAGE 583

CAL TI4-053 IA36 O: TI SI LOWER WING POWER ON (LUFO90) (09 OCT 73)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	953.0000 IN.
LREF	=	1328.0000 IN.	YMRP	=	.0000 IN.
BREF	=	1328.0000 IN.	ZMRP	=	400.0000 IN.
SCALE	=	.0190 SCALE		

PARAMETRIC DATA

BETA	=	.000	OPR	=	28.310
SRMPR	=	2.020	GP1	=	.000
GY1	=	.000	GP2	=	.000
GY2	=	-3.500	GP3	=	.000
GY3	=	3.500	RUDDER	=	.000

MACH (1) = .899 ALPHA (1) = -3.990

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/C						
.050				-.4870	.0494	
.400		.0680		-.1330		
.550	.0000		-.1610			-.3870
.600						
.700						
.750	.0000		-.4740	.0000	.0000	
.800		-.3740				
.850						-.0130
.900			-.0810	-.4880		
.950	.0000			-.1990		

MACH (1) = .899 ALPHA (2) = .100

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/C						
.050				.0090	-.0460	
.400		.1170		-.0540		
.550	.0000		-.1130			-.3250
.600						
.700						
.750	.0000		-.4270	.0000	.0000	
.800		-.3780				
.850						-.2650
.900			-.0690	-.4300		
.950	.0000			-.2750		

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36)

(LUF090)

CAL T14-053 1A36 CONTIS: LOWER WING POWER ON

MACH (1) = .897 ALPHA (3) = 4.030

SECTION 11 ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5330	.6730	.7800	.8870
X/C						
.050				.2430		.2140
.400	.0000	.1450		.0260		
.550			-.0690			
.600						-.2460
.700	.0000		-.3910	.0000	.0000	
.750						
.800		-.3920		-.3650		
.850			-.1640			-.4120
.900				-.4290		
.950	.0000					

MACH (11) = .901 ALPHA (4) = 5.980

SECTION 11 ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.3220		.2960
.400	.0000	.1510		.0640		
.550			-.0480			
.600						-.2060
.700	.0000		-.3700	.0000	.0000	
.750						
.800		-.4040		-.3230		
.850			-.2430			-.4530
.900				-.4810		
.950	.0000					

CAL T14-053 1A36 01 T1 S: LOWER WING POWER ON

(LUFO91)   (09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	OPR =	28.310
SRMPR =	2.020	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	.000
GY3 =	3.500	RUDDER =	.000

MACH (1) = .897   BETA (1) = -6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		-.1260		-.2160		-.2830
.550			-.2490	-.1930		
.600						-.3920
.700						
.750	.0000		.0000	.0000	.0000	
.800		-.3080		-.4760		
.850						
.900	.0000		-.1270			-.0700
.950				-.2700		

MACH (1) = .899   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		-.0670		-.0840		-.1940
.550			-.2200	-.1460		
.600						-.3670
.700						
.750	.0000		.0000	.0000	.0000	
.800		-.3460		-.4860		
.850						
.300	.0000		-.0800			-.1880
.950				-.1940		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

(LUF091)

CAL T14-053 IA36 01 T1 S1   LOWER WING   POWER ON

MACH (1) = .900   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1140		.0140		-.0570
.550	.0000		-.1220	-.0630		
.600					.0000	-.3340
.700						
.750	.0000	-.3890	-.4460		.0000	
.800				-.4310		
.850						-.2540
.900			-.0640			
.950	.0000			-.2510		

MACH (1) = .898   BETA (4) = 3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1700		.1220		.0250
.550	.0000		-.0760	.0000		
.600					.0000	-.3030
.700						
.750	.0000	-.3800	-.4300		.0000	
.800				-.4080		
.850						-.3000
.900			-.0780			
.950	.0000			-.4210		

MACH (1) = .900   BETA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.2040		.2130		.0780
.550	.0000		-.0470	.0300		
.600					.0000	.2720
.700						
.750	.0000	-.3900	-.4140		.0000	
.800				-.3880		
.850						-.3360
.900			-.0960			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A35)   PAGE 587

(LUF091)

CAL T14-053 1A36 01 TI 5I   LOWER WING   POWER ON

MACH (1) = .900   BETA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.950   .0000   -.3860

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 T1 S1   LOWER WING   POWER ON   (LUF092)   (09 OCT 73)

REFERENCE DATA

SPEF =	2690.0000 SQ.FT.	XMRP = 953.0000 IN.
LPEF =	1328.0000 IN.	YMRP = .0000 IN.
BREF =	1328.0000 IN.	ZMRP = 400.0000 IN.
SCALE =	.0190 SCALE	

PARAMETRIC DATA

BETA =	.000	OPR =	70.500
SPWDR =	2.020	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	.000
GY3 =	3.500	RUDDER =	.000

MACH (1) = .900   ALPHA (1) = -8.140

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.6610		-.6540
.400		.0140		-.1870		
.550	.0000		-.2020			-.4620
.600						
.700				.0000	.0000	
.750	.0000	-.3870	-.4850			
.800				-.5180		-.1200
.850						
.900	.0000		-.1120	-.1320		
.950						

MACH (1) = .899   ALPHA (2) = -4.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.4470		-.4690
.400		.0850		-.1250		
.550	.0000		-.1470			-.3780
.600						
.700				.0000	.0000	
.750	.0000	-.3510	-.4480			
.800				-.4700		-.0030
.850						
.900	.0000		-.0820	-.1920		
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 T1 S1   LOWER WING   POWER ON   (LUF092)

MACH (1) = .903   ALPHA (3) = .020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1190		.0310		-.0580
.550	.0000		-.1010	-.0440		
.600						
.700					.0000	
.750	.0000		-.4170		.0000	-.3180
.800		-.3610				
.650				-.4170		
.900	.0000		-.0570	-.2700		-.2500
.950						

MACH (1) = .900   ALPHA (4) = 4.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1530		.2470		.2160
.550	.0000		-.0660	.0270		
.600						
.700					.0000	-.2470
.750	.0000		-.3810		.0000	
.800		-.3890				
.650				-.3580		
.900	.0000		-.1520	-.4370		-.4070
.950						

MACH (1) = .898   ALPHA (5) = 6.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1650		.3200		.3030
.550	.0000		-.0510	.0630		
.600						
.700					.0000	-.2100
.750	.0000		-.3630		.0000	
.800		-.4060				
.650				-.3310		
.900	.0000		-.2320			-.4690
.950						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 1A36 O1 T1 S1   LOWER WING   POWER ON

(LUF092)

MACH (1) =   .898   ALPHA (5) =   6.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C
.950	.0000		-.4860			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-C53 (1A36)

CAL T14-C53 [436 C) TI SI LOWER WING POWER ON   (LUF093) (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 953.0000 IN.
LREF = 1328.0000 IN.   YMRP =   .0000 IN.
BREF = 1328.0000 IN.   ZMRP = 400.0000 IN.
SCALE =   .0190 SCALE

PARAMETRIC DATA

BETA =   .000   OPR   = 48.600
SRMPR = 2.020   GP1   =   .000
GY1   =   .000   GP2   =   .000
GY2   = -3.500   GP3   =   .000
GY3   = 3.500   RUDDER =   .000

MACH (1) = .898   ALPHA (1) = -8.100

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050						
.400	.0000	.0080		-.6800		-.6740
.550			-.2140	-.1980		
.600						-.4980
.700						
.750	.0000	-.4150	-.5140	.0000	.0000	
.800						
.850			-.1140	-.5360		
.900				-.1520		-.1410
.950	.0000					

MACH (1) = .900   ALPHA (2) = -3.990

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050						
.400	.0000	.0800	-.1500	-.4440		-.4820
.550				-.1290		
.600						-.3830
.700						
.750	.0000	-.3810	-.4650	.0000	.0000	
.800						
.850			-.0860	-.4790		
.900				-.1960		-.0190
.950	.0000					

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

(LUF093)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER ON

MACH (1) = .899   ALPHA (3) = .060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1140		.0220		-.0510
.550			-.1150	-.0550		
.600						-.3350
.700	.0000		-.4400	.0000	.0000	
.750						
.800	.0300	-.3780				
.850			-.4320			
.900						-.2660
.950	.0000		-.0720	-.2560		

MACH (1) = .906   ALPHA (4) = 4.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.2530		.2230
.400		.1540		.0370		
.550			-.0510			
.600						-.2320
.700	.0000		-.3730	.0000	.0000	
.750						
.800	.0000	-.3750				
.850						-.3970
.900			-.1460	-.3490		
.950	.0000			-.4120		

MACH (1) = .898   ALPHA (5) = 6.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.3110		.2970
.400		.1550		.0520		
.550			-.0540			
.600						-.2180
.700	.0000		-.3820	.0000	.0000	
.750						
.800	.0000	-.4170				
.850						-.4690
.900			-.2470	-.3500		

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 T1 S1   LOWER WING   POWER ON   (LUF093)

MACH (1) =   .898   ALPHA (5) =   6.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C

.950   .0000   -.4940

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                         CAL T14-053 1A36 O1 T1 S1   LOWER WING   POWER ON

              REFERENCE DATA   (LUF094)   (09 OCT 73)

SREF = 2690.0000 SQ.FT.   XMRP = 953.0000 IN.   PARAMETRIC DATA
LREF = 1328.5000 IN.   YMRP =   .0000 IN.
BREF = 1328.0000 IN.   ZMRP = 400.0000 IN.   BETA   =   .000   OPR   = 28.310
SCALE =   .0190 SCALE   SRMPR =   2.400   OP1   =   .000
                                                        GY1   =   .000   OP2   =   .000
                                                        GY2   = -3.500   OP3   =   .000
                                                        GY3   =   3.500   RUDDER =   .000

MACH (1) =   .898   ALPHA (1) = -7.970

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.050
.400   .0220   -.6720   -.6580
.550   -.2020   -.1870
.600   -.4450
.700   .0000   .0000
.750   .0000   -.3810   -.4840
.800   -.5110
.850   -.0960   -.1100
.900   -.1140
.950   .0000

MACH (1) =   .895   ALPHA (2) = -3.980

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.050
.400   .0910   -.3830   -.4630
.550   -.1480   -.1250
.600   -.3800
.700   .0000   .0000
.750   .0000   -.3590   -.4490
.800   -.4730
.850   -.0555   -.1760
.900   .0020
.950   .0000

DATE 05 NOV 75

(CDF094)

TABULATED DATA FOR CAL TN-053 (IA36)

MACH (1) = .902   ALPHA (1) = .20

SECTION (1)OPERATOR WING   DEPENDENT VARIABLE CP   POWER ON   LOWER WING

ETA

X/C

MACH (1) = .904   ALPHA (2) =

SECTION (1)OPERATOR WING   DEPENDENT VARIABLE CP

ETA

X/C

MACH (1) = .904   ALPHA (3) =

SECTION (1)OPERATOR WING   DEPENDENT VARIABLE CP

ETA

X/C

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

                    CAL T14-053 1A36 O1 T1 S1   LOWER WING   POWER ON   (LUF094)

MACH (1) =   .899   ALPHA (5) =   6.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
 .950   .0000 -.4860

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   (LUF095)

CAL T14-053 1A36 01 TI S: LOWER WING   POWER OFF

MACH (1) = 1.207   ALPHA (3) = -.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050				.0890		.1250
.400		.2740		.1760		
.550			.1250			-.0320
.600				-.1110		
.700	.0000				.0000	
.750			-.1920			
.800	.0000	-.4310		-.3380		
.650						-.2840
.900			-.4930	-.4590		
.950	.0000					

MACH (1) = 1.206   ALPHA (4) = 3.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050				.3780		.3850
.400		.3240		.2650		
.550			.1820			.0300
.600				-.0520		
.700	.0000				.0000	
.750			-.1440			
.800	.0000	-.3930		-.2920		
.650						-.3140
.900			-.4530	-.3240		
.950	.0000					

MACH (1) = 1.204   ALPHA (5) = 6.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050				.4630		.4720
.400		.3230		.2870		
.550			.1680			.0550
.600				-.0390		
.700	.0000				.0000	
.750			-.1360			
.800	.0000	-.3850		-.2780		
.650						-.2980
.900			-.4430			
.950	.0000					

DATE 05 NOV 75

TABULATED DATA FOR CAL TH-953 (A36)

CAL TH-953 (A36 OF TH 51)   LOWER WING   POWER OFF

MACH (11) =   1.204   ALPHA (5) =   5.035

SECTION (INBOARD) WING   DEPENDENT VARIABLE CP

(LJF395)

ETA	.2990	.4270	.5340	.5730	.7800	.8330

X/C
950   .0000   -.3510

CAL T14-053 1A35 O1 T1 S1   LOWER WING   POWER OFF   (LUF096)   (09 OCT 7?)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 953.0000 IN.	
LREF = 1328.0000 IN.	YMPP = .0000 IN.	
BREF = 1328.0000 IN.	ZMRP = 400.0000 IN.	
SCALE = .0190 SCALE		

PARAMETRIC DATA

ALPHA = .000	GP1 = .000
GY1 = .000	GP2 = .000
GY2 = -3.500	GP3 = .000
GY3 = 3.500	RUDDER = 1C.000

MACH (1) = 1.202   BETA (1) = -6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050						
.400				-.2400		-.1790
.550		-.1750	-.1760	-.1170		
.600						
.700				-.2690		-.1740
.750	.0000					
.800	.0000	-.3660	-.3460		.0000	
.850						
.900				-.4400		
.950	.0000		-.4520	-.5180		-.4420

MACH (1) = 1.206   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050						
.400				-.1890		-.1020
.550		-.0470	-.0520	-.0210		
.600						
.700				-.1950		-.1010
.750	.0000					
.800	.0000	-.4030	-.2630		.0000	
.850						
.900				-.3730		
.950	.0000		-.4790	-.4720		-.3770

DATE 05 NOV 75

TABULATED DATA FOR CAL TM-053 (IA36)

(LUF095)

CAL TM-053 (IA36 CI TI S) LOWER WING POWER OFF

MACH ( ) = 1.205   BETA (3) =   .000

SECTION ( )ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.5730	.7800	.9870
X/C						
.050						
.400				.1040		.1250
.550	.0000	.2680		.1790		
.600			.1240			.030
.700				-.1120		
.750	.0000	-.4330	-.1950		.000	
.800				-.3330		
.850			-.490			.0950
.900	.0000			-.4560		
.950						

MACH ( ) = 1.205   BETA (4) =   3.050

SECTION ( )ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.9870
X/C						
.050						
.400				.0430		.1040
.550	.0000	.3340	.1640	.2200		
.600						-.0040
.700	.0000	-.3910	-.1640	-.0950	.0000	
.800				-.3180		
.900	.0000		-.4720	-.4420		-.2750

MACH ( ) = 1.204   BETA (5) =   6.000

SECTION ( )ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.9870
X/C						
.050						
.400				.3240		.2520
.550	.0000	.3820	.1970	.2640		
.600						.0220
.700			-.1430	-.0610	.0000	
.750	.0000	-.3710				
.800				-.5020		
.900			-.4500			-.2970

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER OFF   (LUF096)

MACH (1) = 1.204   BETA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C
.950   .0000   -.3640

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER ON   (LUF097)   (09 OCT 73)

REFERENCE DATA

			PARAMETRIC DATA		
SREF	=	2690.0000 SQ.FT.	XMRP = 953.0000 IN.	BETA = .000	OPR = 36.200
LREF	=	1328.0000 IN.	YMRP = .0000 IN.	SRMPR = 2.330	GP1 = .000
BREF	=	1328.0000 IN.	ZMRP = 400.0000 IN.	GY1 = .000	GP2 = .000
SCALE	=	.0190 SCALE		GY2 = -3.500	GP3 = .000
				GY3 = 3.500	RUDDER = 10.000

MACH (1) = 1.188   ALPHA (1) = -7.750

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8970
X/C						
.050						
.400		.1190		.4570		-.3920
.550	.0000		.0160	.0180		
.600						-.2960
.700						
.750	.0000		-.3060	-.2330	.0000	
.800		-.4510				
.850				-.4360		-.3950
.900						
.950	.0000		-.5800	-.5500		

MACH (1) = 1.205   ALPHA (2) = -4.020

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8970
X/C						
.050						
.400		.2330		.3110		-.2140
.550	.0000		.0900	.1020		
.600						-.0590
.700						
.750	.0000		-.2230	-.1460	.0000	
.800		-.4250				
.850				-.4640		-.3700
.900						
.950	.0000		-.5230	-.4950		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

(LUF097)

CAL T14-053 IA36 01 T1 S1   LOWER WING   POWER ON

MACH (1) = 1.187   ALPHA (3) = 4.060   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400				.3750		.3990
.550	.0000	.3290	.1860	.2600		
.600						.0260
.700				-.0640		
.750	.0000		-.1490		.0000	
.800		-.4020				
.850				-.3080		
.900	.0000		-.4810			-.3270
.950				-.3430		

MACH (1) = 1.192   ALPHA (4) = 6.010   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400				.4600		.4940
.550	.0000	.3470	.2070	.2980		
.600						.0690
.700				-.0390		
.750	.0000		-.1240		.0000	
.800		-.3770				
.850				-.2790		
.900	.0000		-.4580			-.2940
.950				-.3390		

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

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CAL T14-053 IA36 O1 T1 S1   LOWER WING   POWER ON

(LUF098)   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT   XMRP =   963.0000 IN.
LREF = 1328.0000 IN.   YMRP =   .0000 IN.
BREF = 1328.0000 IN.   ZMRP =   -00.0000 IN.
SCALE =   .0190 SCALE

PARAMETRIC DATA

ALPHA =   .000   OPR   =   35.200
SRMPR =   2.330   GP1   =   .000
GY1   =   .060   GP2   =   .000
GY2   =   -3.500   GP3   =   .000
GY3   =   3.500   RUDDER =   10.000

MACH (1) =   1.195   BETA (1) =   -6.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6330	.7800	.8870
X/C						
.050						
.400		-.1590	-.1600	-.1950		-.1630
.550	.0000			-.1020		
.600						-.1550
.700						
.750	.0000		-.3270	-.2550	.0000	
.800		-.2980		-.4170		
.850						-.4400
.900			-.3850			
.950	.0000			-.4900		

MACH (1) =   1.207   BETA (2) =   -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		-.0140	-.0450	-.0730		-.0750
.550	.0000			-.0050		
.600						-.0860
.700						
.750	.0000		-.2420	-.1750	.0000	
.800		-.3550		-.3500		
.850						-.3400
.900			-.4500			
.950	.0000			-.4520		

DATE 05 NOV 75   TABULATED DATA FOR CA_ T14-053 (1A36)

                        CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER ON

                                                                              (LUF098)

MACH (1) = 1.204   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.1340		.1710
.400	.0000	.3010	.1520	.2030		
.550						-.0070
.600				-.0930		
.700						
.750	.0000	-.4110	-.1720		.0000	
.800				-.3240		-.2780
.850						
.900	.0000		-.4920	-.4490		
.950	.0000					

MACH ( ) = 1.204   BETA (4) = 3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.2600		.2440
.400	.0000	.3770	.1950	.2420		
.550						.0200
.600				-.0690		
.700						
.750	.0000	-.3570	-.1420		.0000	
.800				-.3040		-.2680
.850						
.900	.0000		-.4710	-.4330		
.950	.0000					

MACH (1) = 1.205   BETA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.3450		.2860
.400	.0000	.4170	.2290	.2870		
.550						.0480
.600				-.0430		
.700						
.750	.0000	-.3470	-.1210		.0000	
.800				-.2900		-.2790
.850						
.900			-.4530			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

          CAL T14-053 (A36 01 T: S: LOWER WING POWER ON   (LUF098)

MACH (1) = 1.205   BETA (5) = 5.080

SECTION 11ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.950   .0000   -.3260

CAL T14-053 IA36 01 T1 S1   LOWER WING   POWER ON

(LUF0991   (09 OCT 73)

REFERENCE DATA

SPEF =	2690.0000 SQ.FT.	YMRP =	952.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	OPR =	97.600
SRMPR =	2.330	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	.000
GY3 =	3.500	RUDDER =	10.000

MACH (1) = 1.203   BETA (1) = -6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400				-.1540		-.1440
.550	.0000	-.1380	-.1390	-.0890		
.600						-.1430
.700				-.2400		
.750	.0000	-.2240	-.2770		.0000	
.900				-.3890		
.850						-.4180
.900			-.2800	-.4480		
.950	.0000					

MACH (1) = 1.203   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400				-.1550		-.0830
.550	.0000	-.0380	-.0590	-.0130		
.600						-.0940
.700				-.1920		
.750	.0000	-.3180	-.2520		.0000	
.800				-.3720		-.3560
.850			-.4460	-.4630		
.900	.0000					
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(LUF099)

CAL T14-053 1A36 0: T' S1   LOWER WING   POWER ON

MACH (1) = 1.061   BETA (3) =   .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1720	.0080	.0000		.0130
.550				.0000		
.600	.0000					
.700						
.750	.0000	-.4870	-.3270	-.2440	.0000	-.1470
.800						
.850						
.900						
.950	.0000	-.5870	-.4910	-.5820	-.4260	

MACH (1) = 1.118   BETA (4) = 2.980

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1900	.0510	-.0510		.0300
.550				.1090		
.600	.0000					
.700						
.750	.0000	-.4550	-.2630	-.1980	.0000	-.0950
.800						
.850						
.900						
.950	.0000	-.5950	-.5470	-.3300		

MACH (1) = 1.199   BETA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.4220	.2290	.3460		.2900
.550				.2860		
.600	.0000					
.700						
.750	.0000	-.3340	-.1230	-.0470	.0000	.0460
.800						
.850						
.900			-.4510	-.2910		-.2880

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A35)

                        CAL T14-053 1A36 O1 T: S1   LOWER WING   POWER ON   (LUF099)

MACH (1) = 1.199   BETA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.950   .0000   -.3610

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER OFF

(LUF100)   (09 OCT 73)

PARAMETRIC DATA

BETA	=	.000	GP1	=	...
GY1	=	.000	GP2	=	...
GY2	=	-3.500	GP3	=	...
GY3	=	3.500	RUDDER	=	10.000

REFERENCE DATA

SREF	:	2690.0000 SQ.FT.	XMRP	:	953.0000 IN.
LREF	:	1328.0000 IN.	YMRP	:	.0000 IN.
BREF	:	1328.0000 IN.	ZMRP	:	400.0000 IN.
SCALE	:	.0190 SCALE			

MACH (1) = .902   ALPHA (1) = -8.100

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		-.0150		-.6970		-.6800
.550			-.2500	-.2160		
.600						-.5190
.700			-.5240	-.5410		
.750				.0000		
.800	.0000	-.4340				
.850			-.1540			-.1520
.900	.0000		-.1180			
.950	.0000			-.0530		

MACH (1) = .907   ALPHA (2) = -4.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.4590		-.5070
.400	.0000	.0580	-.1790	-.1490		
.550						-.4130
.600			-.4880	-.4950		
.700	.0000	-.3910			.0000	
.750				-.2070		
.800						-.0610
.900			-.1010	-.0250		
.950	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T1W-053 (1A36)

CAL T1W-053 1A36 O1 T1 S1   LOWER WING   POWER OFF   (LUF100)

MACH (1) = .899   ALPHA (3) = .020   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8970
X/C						.0970
.050		.0820		-.0030		-.1100
.400			-.1560	.0830		
.550	.0000					-.3650
.600				-.4440		
.700	.0000	-.4030	-.4620		.0000	
.750				-.3060		-.3000
.800			-.0880	-.0480		
.850	.0000					
.900						
.950						

MACH (1) = .903   ALPHA (4) = 3.980   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8970
X/C						.8870
.050		.1350		.2190		.1760
.400	.0000		-.0930	.0100		
.550				-.3730		-.2690
.600	.0000	-.3920	-.4030		.0000	
.700				-.4340		-.4340
.750	.0000		-.1570	-.2250		
.800						
.850						
.900						
.950						

MACH (1) = .910   ALPHA (5) = 6.010   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8970
X/C						.8870
.050		.1380		.2820		.2590
.400	.0000		-.0900	.0340		
.550				-.3570		-.2480
.600	.0000	.0220	-.1040		.0000	
.700				-.4990		-.4720
.750	.0000		-.2360			
.800						
.850						
.900						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 T1 S1   LOWER WING   POWER OFF   (LUF100)

MACH (1) = .900   ALPHA (5) = 6.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C						
.950	.0000	-.3360				

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	-3.500
GY3 =	3.500	RUDDER =	10.000

MACH (1) = .900   BETA (1) = -6.080

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050					-.2180	-.3210
.400	.0000	-.1420	-.2770	-.2090		
.550						
.600					-.4730	-.4170
.700	.0000		-.4290			
.750				.0000		
.800		-.3150				
.850			-.1280	-.2790		-.1120
.900						
.950	.0000			.0020		

MACH (1) = .901   BETA (2) = -3.050

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050					-.1080	-.2270
.400	.0000	-.0930	-.2480	-.1630		
.550						
.600					-.4910	-.3910
.700	.0000	-.3500	-.4690		.0000	
.750						
.800						
.850		-.0990	-.2220			-.2380
.900						
.950	.0000	.0140				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-753 (1A56)

CAL T14-053 1A56 01 T1 S1   LOWER WING   POWER OFF   (LUF101)

MACH (1) = .903   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.0030		-.1000
.400	.0000	.0870	-.1460	-.0760		
.550						-.3560
.600						
.700	.0000	-.3910	-.4630	-.4390	.0000	
.750						
.800						
.850	.0000		-.0800	-.2950		-.2900
.900				.0330		
.950	.0000					

MACH (1) = .902   BETA (4) = 3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.1110		-.0140
.400	.0000	.1490	-.1020	-.0310		
.550						-.3220
.600						
.700	.0000	-.3830	-.4400	-.4150	.0000	
.750						
.800						
.850	.0000		-.0890	-.4310		-.3210
.900				.0400		
.950	.0000					

MACH (1) = .903   BETA (5) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.1860		.0390
.400	.0000	.1820	-.0790	.0060		
.550						-.2940
.600						
.700	.0000	-.4040	-.4350	-.4030	.0000	
.750						
.800				-.4050		
.850						
.900			-.1120			-.3660

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

                        CAL T14-C53 1A36 01 T1 S1   LOWER WING   POWER OFF   (LUF:0:1)

MACH (1) =   .903   BETA (5) =   6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.950   .0000   -.0670

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER ON   (LVF102)   (09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	OPR =	28.310
SQMPR =	2.020	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	.000
GY3 =	3.500	RUDDER =	10.000

MACH (1) = .899   ALPHA (1) = -7.860

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.0220	-.2140	-.6790		-.6580
.550				-.1960		
.600						
.700	.0000					-.4560
.750	.0000	-.4020	-.5080	-.5220	.0000	
.800						
.850						
.900			-.1110	-.1480		
.950	.0000			.0040		-.1140

MACH (1) = .901   ALPHA (2) = -4.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.0820	-.1630	-.4380		-.4990
.550				-.1300		
.600						
.700	.0000					-.3950
.750	.0000	-.3900	-.4800	-.4870	.0000	
.800						
.850						
.900			-.0840	-.2010		
.950	.0000			.0320		-.0210

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(LUF102)

CAL T14-053 IA36 01 T1 S1   LOWER WING   POWER ON

MACH (1) = .901   ALPHA (3) = -.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400	.0000	.1090		.0120	.7800	-.0750
.550			-.1240	-.0510		
.600						-.3360
.700				-.4340		
.750	.0000	-.3960	-.4570		.0000	
.800				-.2750		-.2710
.850			-.0660			
.900				.0500		
.950	.0000					

MACH (1) = .904   ALPHA (4) = 4.110

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.2470		.2040
.400	.0000	.1580	-.0770	.0320		
.550						-.2510
.600				-.3620		
.700					.0000	
.750	.0000	-.4120	-.3940			
.800				-.4380		-.4170
.850			-.1540			
.900				-.1620		
.950	.0000					

MACH (1) = .920   ALPHA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.3540		.3450
.400	.0000	.2000	-.0060	.1100		
.550						-.1600
.600				-.2760		
.700					.0000	
.750	.0000	-.3580	-.3250			
.800				-.4440		-.3970
.850			-.2020			
.900						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 (A36 01 T1 S1 LOWER WING POWER ON   (LUF102)

MACH (1) = .920   ALPHA (5) = 5.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.950   .0000   -.1900

DATE 05 NOV 75　　　TABULATED DATA FOR CAL T14-053 (IA36)　　　PAGE 420

CAL T14-053 (IA36 O1 T1 S1　LOWER WING　POWER ON　　　(LUF103)　(09 OCT 73)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	953.0000 IN.
LREF	=	1328.0000 IN.	YMRP	=	.0000 IN.
BREF	=	1328.0000 IN.	ZMRP	=	400.0000 IN.
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

ALPHA	=	.000	OPR	=	28.310
SRMPR	=	2.020	GP1	=	.000
GY1	=	.000	GP2	=	.000
GY2	=	-3.500	GP3	=	.000
GY3	=	3.500	RUDDER	=	10.000

MACH (1) = .904　　BETA (1) = -6.090　　DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400			-.1070	-.1870	-.2840
.550	.0000	-.2420	-.1740		
.600					-.3780
.700					
.750	.0000	-.4110	-.4480	.0000	
.800	-.2940				
.850			-.2750		-.0740
.900		-.1090	.0400		
.950	.0000				

MACH (1) = .896　　BETA (2) = -3.050　　DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400			-.0960	-.2070
.550	.0000	-.2410	-.1570		
.600					-.3900
.700					
.750	.0000	-.4910	-.4980	.0000	
.800	-.3850				
.850			-.2150		-.2810
.900		-.0950	.0230		
.950	.0000				

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A35)

(LUF103)

CAL T14-053 1A35 O1 T1 S1 LOWER WING POWER ON

MACH (1) = .907 BETA (3) = .000

SECTION (1) ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1330		.0400		-.0370
.550		.0000	-.1040	-.0420		
.600						-.3110
.700				-.4140		
.750		.0000	-.4300		.0000	
.800						
.850				-.2960		-.2540
.900		.0000	-.0580	.0680		
.950						

MACH (1) = .901 BETA (4) = 3.060

SECTION (1) ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1770		.1450		.0230
.550		.0000	-.0770	-.0100		
.600						-.2990
.700				-.4120		
.750		.0000	-.4330		.0000	
.800						
.850				-.4610		-.3160
.900		.0000	-.0870	.0170		
.950						

MACH (1) = .896 BETA (5) = 6.090

SECTION (1) ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.2030		.2050		.0670
.550		.0000	-.0590	.0190		
.600						-.2730
.700				-.3940		
.750		.0000	-.4330		.0000	
.800						
.850		-.4070		-.4000		-.3500
.900			-.1100			
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL TIH-053 (IA36)

CAL TIH-053 IA36 01 TI S!   LOWER WING   POWER ON   (CUF:03)

MACH (1) = .896   BETA (5) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.950   .0000   -.0520

CAL T14-053 (1A36 01 71 S1)   LOWER WING   POWER ON

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 953.0000 IN.
LREF =	1328.0000 IN.	YMRP = .0000 IN.
BREF =	1328.0000 IN.	ZMRP = 400.0000 IN.
SCALE =	.0190 SCALE	

PARAMETRIC DATA

ALPHA =	.000	CPR =	69.300
BETPR =	2.020	CP1 =	.000
GY1 =	.000	CP2 =	.000
GY2 =	-3.500	CP3 =	.000
GY3 =	3.500	RUDDER =	10.000

MACH (1) = .898   BETA (1) = -6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2390	.4270	.5340	.6730	.7800	.8870
X/C						
.050						-.3000
.400		-.1220		-.2230		
.550				-.1890		
.600	.0000		-.2500			-.3960
.700						
.750	.0000		-.4150	-.4690		
.800		-.3160			.0000	
.850				-.3200		-.0900
.900	.0000		-.1280			
.950				.0170		

MACH (1) = .898   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						-.1910
.400		-.0710		-.0780		
.550				-.1510		
.600	.0000		-.2250			-.3730
.700						
.750	.0000		-.4730	-.4340		
.800		-.3630			.0000	
.850				-.2390		-.2710
.900	.0000		-.1020			
.950				.0140		

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 :A36 01 T1 S1   LOWER WING   POWER ON   (LUF104)

MACH (1) = .899   BETA (3) = .000   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870

x/C						
.050				.0140		-.0580
.400	.0000	.1250		-.0540		
.550			-.1100			
.600				-.4290		-.3210
.700	.0000		-.4350		.0000	
.750		-.3810				
.800				-.2760		
.850			-.0750			-.2670
.900	.0000			.0640		
.950						

MACH (1) = .900   BETA (4) = 3.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

x/C						
.050				.1540		.0300
.400	.0000	.1890		-.0020		
.550			-.0690			-.2910
.600				-.3990		
.700	.0000		-.4200		.0000	
.750		-.3790				
.800				-.4340		
.850			-.0730			-.3140
.900	.0000			.0410		
.950						

MACH (1) = .896   BETA (5) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

x/C						
.050				.2120		.0820
.400	.0000	.2130		.0250		
.550			-.0510			
.600				-.3940		-.2670
.700	.0000		-.4240		.0000	
.750		-.3600				
.800				-.4110		
.850						-.3590
.900						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A35 01 T1 S1   LOWER WING   POWER ON   (LWF194)

MACH (1) = .896   BETA (5) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.950   0000   -.0040

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER ON

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF = 1328.0000 IN.	YMRP =	.0000 IN.
BREF = 1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE = 0.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	OPR = 9?
SRMPR =	2.330	GP1 =
GY1 =	.000	GP2 =
GY2 =	-3.500	GP3 =
GY3 =	3.500	POWER =

MACH (1) = 1.206   BETA (1) = -6.080

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2390	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400						
.550					-.2150	-.1600
.600					-.0990	
.700		-.1470	-.1500			
.750					-.1320	
.800				-.2550		
.850		-.2840	-.3150		.0000	
.900				-.4120		
.950			-.3690			-.4260
			-.4830			

MACH (1) = 1.202   BETA (2) = -3.040

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050					-.1580	-.0870
.400					-.0150	
.550		-.0310	-.0500			
.600					-.0940	
.700				-.1920		
.750					.0000	
.800		-.3680	-.2490			
.850				-.3670		
.900			-.4680			-.3480
.950			-.4680			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 IA35 01 T1 51   LOWER WING   POWER ON   .000   (LUF105)

MACH (1) = 1.202   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.3050	.1530	.1070		.1610
.550				.1960		
.600	.0000					-.0080
.700			-.1750	-.0980		
.750	.0000				.0000	
.800		-.4160				
.850				-.3310		-.2780
.900	.0000		-.4900			
.950	.0000			-.4520		

MACH (1) = 1.197   BETA (4) = 3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.3690	.1890	.2690		.2290
.550				.2420		
.600	.0000					.0130
.700			-.1470	-.0720		
.750	.0000				.0000	
.800		-.3720				
.850				-.3100		-.2700
.900	.0000		-.4710			
.950	.0000			-.4370		

MACH (1) = 1.207   BETA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.4210	.2370	.3500		.2990
.550				.2920		
.600	.0000					.0530
.700			-.1170	-.0420		
.750	.0000				.0000	
.800		-.3480				
.850				-.2870		-.2780
.900	.0000		-.4470			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

                        CAL T14-053 IA36 01 T1 S1   LOWER WING   POWER ON   (LUF105)

MACH (1) = .207   BETA (5) = 6.080

SECTION (1)OBD:TED WING   DEPENDENT VARIABLE CP

ETA   .2930   .4270   .5340   .6730   .7800   .8870

X/C
.950   .0000   -.3130

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 (A36 0: T1 S) LOWER WING POWER OFF   (LUF106)   (09 OCT 73)

REFERENCE DATA				PARAMETRIC DATA			
SPEF = 2690.0000 SQ.FT.	XMRP = 953.0000 IN.			ALPHA =	.000	GP1 =	36.200
LREF = 1328.0000 IN.	YMRP = .0000 IN.			GY1 =	2.330	GP2 =	.000
BPEF = 1328.0000 IN.	ZMRP = 400.0000 IN.			GY2 =	.000	GP3 =	.000
SCALE = .0190 SCALE				GY3 =	-3.500	RUDDER =	.000

MACH (1) = 1.208   BETA (1) = -6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.2600		-.1710
.400				-.1130		
.550	.0000	-.1720	-.1730			-.1690
.600						
.700				-.2630		
.750	.0000		-.3410		.0000	
.800		-.3590				
.850				-.4320		-.4330
.900	.0000		-.4470			
.950				-.5140		

MACH (1) = 1.206   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.1780		-.1040
.400				-.0240		
.550	.0000	-.0400	-.0530			-.1040
.600						
.700				-.1980		
.750	.0000		-.2650		.0000	
.800		-.4020				
.850				-.3720		-.3710
.900	.0000		-.4780			
.950				-.4710		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(LUF106)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER OFF

MACH (1) = 1.206   BETA (3) = .000   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.1040		.1300
.400		.2720		.1830		
.550			.1260			
.600						-.0320
.700	.0000		-.1940	-.1120	.0000	
.750						
.800		-.4340		-.3400		
.850						
.900	.0000		-.4930	-.4590		-.2970
.950	.0000					

MACH (1) = 1.206   BETA (4) = 3.050   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.2480		.2020
.400		.3350		.2230		
.550			.1650			
.600						-.0050
.700	.0000		-.1650	-.0840	.0000	
.750						
.800		-.3920		-.3200		
.850						
.900	.0000		-.4710	-.4420		-.2840
.950	.0000					

MACH (1) = 1.205   BETA (5) = 6.080   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.3170		.2590
.400		.3830		.2610		
.550			.1990			
.600						.0180
.700	.0000		-.1410	-.0640	.0000	
.750						
.800		-.3720		-.3050		
.850						
.900			-.4580			-.3010

DATE 05 NOV '75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER OFF

(LUF106)

MACH (1) = 1.205   BETA (5) =   6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2390   .4270   .5340   .6730   .7800   .8870

X/C
.950   .0000   -.3640

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 1A36 O1 T1 S1 LOWER WING POWER OFF   (LUF107)   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 953.0000 IN.
LREF = 1328.0000 IN.   YMRP =   .0000 IN.
BREF = 1328.0000 IN.   ZMRP = 400.0000 IN.
SCALE =   .0190 SCALE

PARAMETRIC DATA

ALPHA =   .000   GP1   = 36.200
GY1   =   2.330   GP2   =   .000
GY2   =   .000   GP3   =   .000
GY3   = -3.500   RUDDER =   .000

MACH (1) = .906   BETA (1) = -6.080   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		-.1270		-.1820		-.3070
.550				-.1970		
.600			-.2680			-.4110
.700						
.750	.0000		-.4220	-.4690	.0000	
.800	.0000	-.2980				
.850				-.2780		-.1070
.900			-.1160			
.950	.0000			.0130		

MACH (1) = .911   BETA (2) = -3.050   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		-.0800		-.0950		-.1950
.550				-.1550		
.600			-.2350			-.3820
.700						
.750	.0000		-.4510	-.4790	.0000	
.800	.0000	-.3480				
.850				-.2040		-.2090
.900			-.0920			
.950	.0000			.0250		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER OFF

(LUF1571)

MACH (1) = .900   BETA (3) = .000   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050				-.0090		
.400				-.0790		-.0940
.550	.0000	.0860	-.1500			
.600						-.3640
.700				-.4530	.0000	
.750	.0000	-.4030	-.4700			
.800						
.850				-.3140		-.2880
.900	.0000		-.0870			
.950	.0000			.0140		

MACH (1) = .901   BETA (4) = 3.050   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050				.1200		-.0240
.400				-.0350		
.550	.0000	.1450	-.1040			
.600						-.3250
.700				-.4200	.0000	
.750	.0000	-.3960	-.4460			
.800						
.850				-.4520		-.3500
.900	.0000		-.0860			
.950	.0000			.0110		

MACH (1) = .903   BETA (5) = 6.090   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050				.1940		.0400
.400				.0090		
.550	.0000	.1820	-.0820			
.600						-.2980
.700				-.3980	.0000	
.750	.0000	-.4140	-.4440			
.800						
.850				-.3960		-.3800
.900			-.1330			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 OI TI SI   LOWER WING   POWER OFF   (LUF107)

MACH (1) = .903   BETA (5) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8970

X/C

.950   .0000   -.0610

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER ON   (LUF108) (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 953.0000 IN.	
LREF = 1328.0000 IN.	YMRP = .0000 IN.	
BREF = 1328.0000 IN.	ZMRP = 400.0000 IN.	
SCALE = .0190 SCALE		

PARAMETRIC DATA

ALPHA = .000	CPR = 28.310
SRMPR = 2.020	GP1 = 11.000
GY1 = 11.000	GP2 = -3.500
GY2 = 11.000	GP3 = 3.500
GY3 = 7.000	RUDDER = 7.000

MACH (1) = .901   BETA (1) = -6.080   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.2030	-.1880	-.2530
.400						
.550	.0000	-.1050	-.2430			-.3780
.600				-.4620	.0000	
.700	.0000	-.3100	-.4230	-.2660		
.750						
.800			-.1130	.0310		-.1050
.850	.0000					
.900						
.950						

MACH (1) = .889   BETA (2) = -3.050   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.1090	-.1750	-.2140
.400						
.550	.0000	-.0830	-.2510			-.3990
.600				-.5140	.0000	
.700	.0000	-.3940	-.5120	-.2360		
.750						
.800			-.1090	.0120		-.2090
.850	.0000					
.900						
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-C53 (IA36)   (LUF108)

CAL T14-C53 IA36 01 T1 S1   LOWER WING   POWER ON

MACH (1) = .900   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1080		.0460		-.0670
.550			-.1200	-.0530		
.600	.0000					-.3310
.700				-.4340		
.750	.0000	-.4040	-.4580		.0000	
.800				-.2880		-.2630
.850			-.0720			
.900	.0000			.0350		
.950	.0000					

MACH (1) = .896   BETA (4) = 3.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050		.1640		.1470		.0030
.400			-.0900	-.0130		
.550	.0000					-.3140
.600				-.4200		
.700	.0000	-.4000	-.4510		.0000	
.750				-.4500		
.800			-.0960			-.3230
.850	.0000			.0100		
.900	.0000					
.950						

MACH (1) = .902   BETA (5) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050		.2200		.2230		.0890
.400			-.0480	.0360		
.550	.0000					-.2650
.600				-.3810		
.700	.0000	-.4050	-.4170		.0000	
.750				-.3840		
.800			-.1330			-.3470
.850						
.900						

(LUF108)

DATE 05 NOV 75　　　TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1　LOWER WING　POWER ON

MACH (1) = .902　BETA (5) = 6.090

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.950	.0000		-.0530			

CAL T14-053 1A36 C1 T1 S1   LOWER WING   POWER ON   (LUF109)   (19 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	953.0000 IN.
LREF	=	1328.0000 IN.	YMRP	=	.0000 IN.
BREF	=	1328.0000 IN.	ZMRP	=	400.0000 IN.
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

BETA	=	.000	OPR	=	36.200
SRMPR	=	2.330	GP1	=	11.500
GP2	=	11.000	GY2	=	-12.050
GP3	=	11.000	GY3	=	3.000
GP4	=	7.000	GP5	=	3.000

MACH (1) = 1.204   ALPHA (1) = -.120

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.1130		.1480
.400		.3030		.1950		
.550	.0000		.1520			
.600				-.0990		-.0130
.700						
.750	.0000	-.4170	-.1750		.0000	
.800				-.3270		
.850						-.2890
.900			-.4920			
.950	.0000			-.4510		

MACH (1) = 1.203   ALPHA (2) = 4.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.3990		.4200
.400		.3600		.2830		
.550	.0000		.2120			
.600				-.0410		.0520
.700						
.750	.0000	-.3760	-.1230		.0000	
.800				-.2840		
.850						-.3010
.900			-.4560			
.950	.0000			-.3160		

DATE 05 NOV 75   TABULATED DATA FOR CAL 714-053 (1A36)

                        CAL 714-053 :A35 O1 T1 S1 LOWER WING POWER ON   (LUF:C9)   PAGE 639

MACH (1) =   1.207   ALPHA (3) =   5.920

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.050
.400   .3630   .4820   .5120
.550   .2220   .3160
.600   .0810
.700
.750   .0000   -.1050   -.0170
.800   .0000   -.3600   .0000
.850
.900   .0000   -.4340   -.2600
.950   -.3130   -.2750

CAL T14-053 1A36 O1 T1 S1 LOWER WING POWER ON   (OUF110) (CO OCT 73

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF = 1328.0000 IN.	YMRP =	.0000 IN.
BREF = 1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE = .0190 SCALE		

PARAMETRIC DATA

ALPHA	= .000	OPR	= 36.200
BETA	= 2.330	GP1	= 11.000
GP2	= 11.000	GY2	= -3.500
GP3	= 11.000	GY3	= 3.500
GP4	= 7.000	GP5	= 7.000

MACH (1) = 1.202   BETA (1) = -6.080

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		-.1400		-.2080		-.1640
.550			-.1510	-.0930		
.600						-.1520
.700	.0000					
.750		-.3150		-.2520		
.800	.0000	-.2870				
.850					.0000	
.900		-.3720		-.4180		-.4260
.950	.0000			-.4840		

MACH (1) = 1.209   BETA (2) = -3.040

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		-.0130		-.1610		-.0840
.550			-.0490	-.0160		
.600						-.0850
.700	.0000					
.750		-.2490		-.1870		
.800	.0000	-.3620				
.850					.0000	
.900		-.4600		-.3620		-.3580
.950	.0000			-.4550		

DATE 05 NOV 75   TABULATED DATA FOR CAL 714-053 (1A36)

CAL 714-053 (AJ6 01 T1 51   LOWER WING   POWER ON   (LUF110)

MACH (1) = 1.207   BETA (3) =   .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400				.1130		.1600
.550		.3110	.1540	.2050		
.600						-.0080
.700						
.750			-.1690	-.0940		
.800	.0000	-.4100			.0000	
.850				-.3240		
.900			-.4870			
.950	.0000			-.4480		-.2770

MACH (1) = 1.210   BETA (4) = 3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.2630		.2350
.400		.3780	.2000	.2510		
.550						
.600						.0240
.700						
.750			-.1350	-.0600		
.800	.0000	-.3580			.0000	
.850				-.2970		
.900			-.4590			
.950	.0000			-.4230		-.2680

MACH (1) = 1.204   BETA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.3520		.2980
.400		.4180	.2340	.2920		
.550						
.600						.0450
.700						
.750			-.1170	-.0400		
.800	.0000	-.3490			.0000	
.850				-.2870		
.900			-.4530			-.2900

DATE 25 NOV 75   TABULATED DATA FOR CAL T14-053 (IA35)

CAL T14-053 IA35 O: T: S1   LOWER WING   POWER ON   (LUF110)

MACH (1) =   1.204   BETA (5) =   6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C

.950   .0000   -.3440

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O1 T1 S1 LOWER WING POWER ON   (LUF111) (09 OCT 73)

PEFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	953.0000 IN.
LREF	=	1328.0000 IN.	YMRP	=	.0000 IN.
BREF	=	1328.0000 IN.	ZMRP	=	400.0000 IN.
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

BETA	=	.000	OPR	=	28.310
SRMPR	=	2.020	GP1	=	11.000
GP2	=	11.000	GY2	=	-3.500
GP3	=	11.000	GY3	=	3.500
GP4	=	7.000	GP5	=	7.000

MACH (1) = .900   ALPHA (1) = -8.110

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.0020		-.6930	-.6660	
.550			-.2260	-.1950		
.600					-.4970	
.700						
.750	.0000		-.5380	-.5400	.0000	
.800		-.4490				
.850				-.1720		
.900		-.1310				-.1480
.950	.0000			-.0370		

MACH (1) = .899   ALPHA (2) = -4.120

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.0650		-.4530	-.5080	
.550			-.1740	-.1370		
.600					-.4050	
.700						
.750	.0000		-.5010	-.4990	.0000	
.800		-.4260				
.850				-.2080		
.900		-.1070				-.0460
.950	.0000			-.0060		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O1 T1 S1   LOWER WING   POWER ON   (LUF111)

MACH (1) = .904   ALPHA (3) = -.100

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.5730	.7800	.8870
x/c						
.050		.1180		.0110		-.0700
.400	.0000			-.0610		
.550			-.1210			
.600	.0000			-.4330		-.3290
.700			-.4610		.0000	
.750		-.4040				
.800			-.0780			-.2650
.850	.0000					
.900				-.2410		
.950	.0000			.0230		

MACH (1) = .901   ALPHA (4) = 3.970

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050		.1500		.2300		.2060
.400	.0000			.0130		
.550			-.0850			
.600				-.3870		-.2670
.700	.0000		-.4160		.0000	
.750		-.4230				
.800			-.2360			-.4290
.850	.0000			-.4340		
.900				-.1790		
.950	.0000					

MACH (1) = .902   ALPHA (5) = 5.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050		.1650		.3220		.3000
.400	.0000			.0510		
.550			-.0610			
.600				-.3460		-.2220
.700	.0000		-.3880		.0000	
.750		-.4340				
.800			-.3470			-.4710
.850	.0000			-.4820		
.900				-.3470		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

                          CAL T14-053 IA36 01 T1 S1   LOWER WING   POWER ON   (LUF111)

MACH (1) =   .902   ALPHA (5) =   5.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.950   .0000   -.2860

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 T1 S1   LOWER WING   POWER ON   (LUF(12)   (5 OCT 73)

REFERENCE DATA

SPEF	= 2690.0000 SQ.FT.	XMPP =	953.0000 IN.
LREF	= 1328.0000 IN.	YMPP =	.0000 IN.
BREF	= 1328.0000 IN.	ZMPP =	400.0000 IN.
SCALE	= .0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	GPR =	28.700
SRMPR =	2.020	GP1 =	...000
GP2 =	11.000	GY2 =	-3.000
GP3 =	11.000	GY3 =	3.000
GP4 =	7.000	GP5 =	...000

MACH (1) = .901   BETA (1) = -6.080

SECTION (1)OPBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.2640		-.3360
.400		-.1300		-.1970		
.550	.0000		-.2700			
.600						-.4140
.700				-.5040		
.750	.0000		-.4580		.0000	
.800		-.3340				
.850				-.2720		
.900			-.1280			-.0880
.950	.0000			.0080		

MACH (1) = .904   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.1020		-.2110
.400		-.0610		-.1530		
.550	.0000		-.2320			
.600						-.3850
.700				-.4980		
.750	.0000		-.5170		.0000	
.800		-.3900				
.550				-.1860		
.900			-.0960			-.2150
.950	.0000			.0090		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   (LUF112)   PAGE 647

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER ON

MACH (1) = .902   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1160		-.0040		-.0910
.550			-.1270	-.0620		
.600						
.700						
.750	.0000	-.4150	-.4790	-.4510		-.3430
.800						
.850						
.900	.0000		-.0790	-.2360	.0000	-.2750
.950	.0000			.0060		

MACH (1) = .900   BETA (4) = 3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1700		.1360		.0090
.550			-.0830	-.0110		
.600						
.700						
.750	.0000	-.4150	-.4480	-.4120	.0000	-.3100
.800						
.850				-.4400		
.900	.0000		-.1090			-.3150
.950	.0000			.0090		

MACH (1) = .899   BETA (5) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.2100		.2010		.0720
.550			-.0540	.0240		
.600						
.700						
.750	.0000	-.4300	-.4290	-.3960	.0000	-.2730
.800						
.850				-.3880		
.900	.0000		-.1480			-.3500

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O1 T1 S1   LOWER WING   POWER ON   (LUF112)

MACH (1) =   .899   BETA (5) =   6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C
.950	.0000		-.0670

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36) PAGE 649

CAL T14-053 (1A36 01 T1 S1 LOWER WING POWER ON (LUF113) (09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 953.0000 IN.
LREF =	1328.0000 IN.	YMRP = .0000 IN.
BREF =	1328.0000 IN.	ZMRP = 400.0000 IN.
SCALE =	.0190 SCALE	

PARAMETRIC DATA

BETA =	.000	OPR =	36.200
SRMPR =	2.330	GP1 =	-11.000
GP2 =	-8.000	GY2 =	-3.500
GP3 =	-8.000	GY3 =	3.500
GP4 =	-7.000	GP5 =	-7.000

MACH (1) = 1.204 ALPHA (1) = -8.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1420		-.4390		-.3540
.550	.0000		.0390	.0340		
.600						-.3120
.700						
.750	.0000		-.2820	-.2040	.0000	
.800		-.4150				
.850				-.4100		
.900	.0000		-.5440			-.3770
.950				-.5210		

MACH (1) = 1.209 ALPHA (2) = -4.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.2340		-.2820		-.1950
.550	.0000		.1010	.1340		
.600						-.0570
.700						
.750	.0000		-.2120	-.1350	.0000	
.800		-.4000				
.850				-.3550		
.900	.0000		-.5110			-.3620
.950				-.4740		

DATE 05 NOV 75   TABULATED DATA FOR CAL TI4-053 (IA36)

CAL TI4-053 (A35 C(TI SI) LOWER WING POWER ON   (LUF113)

MACH (1) = 1.209   ALPHA (3) = .010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8970
X/C						
.050				.1190		.1690
.400		.3120		.2030		
.550	.0000		.1620			
.600				-.0900		.0010
.700						
.750	.0000		-.1650		.0000	
.800						
.850		-.3840		-.3200		
.900			-.4830			-.2790
.950	.0000			-.4420		

MACH (2) = 1.201   ALPHA (4) = 3.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8970
X/C						
.050				.4110		.4190
.400		.3460		.2840		
.550	.0000		.2090			
.600				-.0430		.0470
.700						
.750	.0000		-.1280		.0000	
.800						
.850		-.3630		-.2860		
.900			-.4490			-.3040
.950	.0000			-.3200		

MACH (1) = 1.204   ALPHA (5) = 6.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8970
X/C						
.050				.4900		.5120
.400		.3570		.3160		
.550	.0000		.2250			
.600				-.0150		.0860
.700						
.750	.0000		-.1060		.0000	
.800						
.850		-.3420		-.2590		
.900			-.4260			-.2750

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T: S1   LOWER WING   POWER ON   (LUF1:3)

MACH (1) = 1.204   ALPHA (5) =   6.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.950   .0000   -.3150

CAL T14-053 (1A36 ... S) LOWER WING POWER ON   (05 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 953.0000 IN.
LREF = 1328.0000 IN.   YMRP = .0000 IN.
BREF = 1328.0000 IN.   ZMRP = 400.0000 IN.
SCALE = .0150 SCALE

PARAMETRIC DATA

ALPHA	=	36.200
SRMPP	=	-1.000
GP2	=	-3.000
GP3	=	-8.000
GP4	=	-7.000

CPR	=	.000
CPI	=	-.430
GY2	=	-3.500
GY3	=	3.500
GY5	=	-7.000

MACH (1) = 1.207   BETA (1) = -6.070

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050				-.1840		-.1540
.100				-.0900		
.200	.0000	-.1390	-.1370			-.1460
.400				-.2440	.0000	
.600	.0000	-.2460	-.2910			
.800				-.3980		-.1410
.900	.0000		-.3160	-.4650		

MACH (1) = 1.203   BETA (2) = -3.040

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050				-.1410		-.0750
.100				-.0030		
.200	.0000	-.0220	-.0470			-.0920
.400				-.1870	.0000	
.600	.0000	-.3340	-.2420			
.800				-.3650		
.900	.0000		-.4580	-.4620		-.3270

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   (LUF114)

CAL T14-053 1A36 O1 T1 S1   LOWER WING   POWER ON

MACH (1) = 1.203   BETA (3) =   .000   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.1230		.1550
.400		.3070	.1490	.2020		
.550						
.600						-.0170
.700	.0000		-.1760	-.1000	.0000	
.750						
.800	.0000	-.4010		-.3320		
.850						
.900	.0000		-.4910			-.2960
.950				-.4560		

MACH (1) = 1.204   BETA (4) = 3.050   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.2640		.2480
.400		.3740	.2000	.2450		
.550						
.600						.0220
.700	.0000		-.1370	-.0640	.0000	
.750						
.800	.0000	-.3370		-.3010		
.850						
.900	.0000		-.4560	-.4260		-.2820
.950	.0000					

MACH (1) = 1.202   BETA (5) = 6.080   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.3460		.2330
.400		.4180	.2290	.2850		
.550						
.600						.0430
.700	.0000		-.1170	-.0450	.0000	
.750						
.800	.0000	-.3370		-.2890		
.850						
.900			-.4520			-.2990

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL 714-053 (IAIS)

CAL 714-053 (AIS 01 ?) S) LOWER WING POWER ON

(COEFINI)

MACH ( ) = 1.202　BETA (5) = 6.080

SECTION ( )ORBITER WING　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C		
.950	.0000	-.3330

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

PAGE 655

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER ON

(LUF115)   (09 OCT 73)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	953.0000 IN.
LREF	=	1328.0000 IN.	YMRP	=	.0000 IN.
BREF	=	1328.0000 IN.	ZMRP	=	400.0000 IN.
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

BETA	=	.000	OPR	=	28.310
SRMPR	=	2.020	GP1	=	-11.000
GP2	=	-8.000	GP2	=	-3.500
GP3	=	-8.000	GY3	=	3.500
GP4	=	-7.000	GP5	=	-7.000

MACH (1) =   .902   ALPHA (1) = -8.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.6640		-.6720
.400	.0000	.0050		-.1930		
.550			-.2210			
.600						-.5270
.700				-.5350	.0000	
.750	.0000	-.4420	-.5310			
.800						
.850				-.1750		
.900	.0000		-.1210			-.1500
.950				-.0350		

MACH (1) =   .904   ALPHA (2) = -3.970

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.4070		-.4830
.400	.0000	.0850		-.1280		
.550			-.1620			
.600						-.3950
.700				-.4860	.0000	
.750	.0000	-.4080	-.4990			
.800						
.850				-.2090		
.900	.0000		-.1010			-.0570
.950				.0010		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA35)

CAL T14-053 IA35 O1 T1 S1 LOWER WING POWER ON   [UF(15)]

MACH (1) = .902   ALPHA (3) = .070

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1220		.0030		-.0540
.550	.0000		-.1190	-.0610		
.600						-.3320
.700						
.750	.0000		-.4660	-.4460	.0000	
.800		-.4120				
.850				-.2800		-.2840
.900	.0000		-.0890	.0150		
.950						

MACH (1) = .903   ALPHA (4) = 3.860

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1250		.2080		.1610
.550	.0000		-.0930	.0040		
.600						-.2740
.700						
.750	.0000		-.4070	-.3820	.0000	
.800		-.3990				
.850				-.4290		-.4300
.900	.0000		-.1730	-.1480		
.950						

MACH (1) = .900   ALPHA (5) = 5.990

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1590		.3230		.3010
.550	.0000		-.0530	.0560		
.600						-.2110
.700						
.750	.0000		-.3820	-.3450	.0000	
.800		-.4210				
.850				-.5070		-.5030
.900	.0000		-.3950			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

                        CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER ON   (LUF115)

MACH (1) = .920   ALPHA (5) = 5.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.950   .0000   -.3140

CAL T14-053 1A36 O1 T1 S1 LOWER WING POWER ON   (LUF115) (09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.	
LREF =	1328.0000 IN.	YMRP =	.0000 IN.	
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.	
SCALE =	.0130 SCALE			

PARAMETRIC DATA

ALPHA =	.000	CPR =	28.300	
SRMRP =	2.020	GP1 =	-11.000	
GP2 =	-8.000	GY2 =	-3.500	
GP3 =	-8.000	GY3 =	3.500	
GP4 =	-7.000	GP5 =	-7.000	

MACH (1) = .901   BETA (1) = -6.080

DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.2130		-.3060
.400		-.1200		-.1930		
.550	.0000		-.2640			-.4110
.600						
.700			-.4690	-.4950	.0000	
.750	.0000	-.3520				
.800				-.3650		-.1260
.850			-.1450			
.900	.0000			-.0140		
.950						

MACH (1) = .901   BETA (2) = -3.050

DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.1090		-.1980
.400		-.0540		-.1500		
.550	.0000		-.2230			-.3810
.600						
.700			-.5100	-.5020	.0000	
.750	.0000	-.3950				
.800				-.2400		-.2980
.850			-.1070			
.900	.0000			-.0150		
.950						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER ON   (LUF116)

MACH (1) = .899   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050						
.400		.1240		.0090		-.0640
.550	.0000		-.1250	-.0560		
.600						
.700	.0000	-.4010	-.4660	-.4420		-.3350
.750						
.800						
.850	.0000				.0000	
.900		-.0890	-.2970			-.2840
.950	.0000			.0220		

MACH (1) = .899   BETA (4) = 3.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050						
.400		.1750		.1340		.0140
.550	.0000		-.0870	-.0130		
.600						
.700	.0000	-.4210	-.4520	-.4230		-.3150
.750						
.800						
.850	.0000				.0000	
.900		-.1160	-.4740			-.3160
.950	.0000			-.0420		

MACH (1) = .902   BETA (5) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050						
.400		.2070		.2130		.0720
.550	.0900		-.0570	.0260		
.600						
.700	.0000	-.4500	-.4360	-.3940		-.2820
.750						
.800						
.850	.0000				.0000	
.900		-.1580	-.3880			-.3670

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O1 T1 S1   LOWER WING   POWER ON

(LUF115)

MACH (1) =   .902   BETA (5) =   6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.3730	.7800	.8870
X/C						
.950	.0000		-.0970			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O1 T1 S1   LOWER WING   POWER OFF   (LUF117) (09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	GP1 =	.000
GP2 =	.000	GY2 =	-3.500
GP3 =	.000	GY3 =	3.500
GP4 =	.000	GP5 =	.000

MACH (1) = 1.206   ALPHA (1) = -8.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.4580		-.3770
.400		.1130		.0150		
.550	.0000		.0120			
.600				-.2190		-.3090
.700						
.750	.0000	-.5000	-.2970		.0000	
.800						
.850				-.4200		
.900		-.5680				-.3780
.950	.0000			-.5270		

MACH (1) = 1.205   ALPHA (2) = -6.110

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.4110		-.3420
.400		.1500		.C550		
.550	.0000		.0340			
.600				-.1980		-.1060
.700						
.750	.0000	-.4820	-.2710		.0000	
.800						
.850				-.3970		
.900		-.5520				-.3730
.950	.0000			-.5070		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-C53 (1A36)

                              CAL T14-C53 1A35 O1 T1 S1   LOWER WING   POWER OFF   (LUF117)

MACH (1) =   1.208   ALPHA (3) = -4.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.3130		-.2470
.400		.1870	.0690	.1070		
.550	.0000					-.0810
.600				-.1630		
.700					.0000	
.750	.0000		-.2360			
.800		-.4570		-.3720		-.3830
.850			-.5250			
.900	.0000			-.4580		
.950						

MACH (1) =   1.206   ALPHA (4) = -2.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.1610		-.0370
.400		.2360	.0950	.1380		
.550	.0000					-.0670
.600				-.1380		
.700					.0000	
.750	.0000		-.2160			
.800		-.4420		-.3570		-.3770
.850			-.5140			
.900	.0000			-.4760		
.950	.0000					

MACH (1) =   1.207   ALPHA (5) = -.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0840		.1260
.400		.2690	.1240	.1690		
.550	.0000					-.0350
.600				-.1130		
.700					.0000	
.750	.0000		-.1930			
.800		-.4310		-.3400		-.3140
.850			-.4960			
.900						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

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CAL T14-053 (A36 01 T1 S1   LOWER WING   POWER OFF   (LUF(17)

MACH (1) = 1.207   ALPHA (5) = -.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.950	.0000			-.4580		

MACH (1) = 1.205   ALPHA (6) = 2.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						.2700
.400		.2820	.1500	.2700		
.550				.2190		
.600						
.700			-.0870			-.0080
.750	.0000	-.4190	-.1730			
.800				.0000		
.350						
.900		-.4820		-.3220		-.3330
.550	.0000			-.3640		

MACH (1) = 1.205   ALPHA (7) = 4.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						.3800
.400		.3140	.1760	.3690		
.550				.2600		
.600						
.700			-.0600			.0240
.750	.0000	-.3940	-.1470			
.800				.0000		
.850						
.900		-.4590		-.2950		-.3170
.950	.0000			-.3330		

DATE 25 NOV 75   TABULATED DATA FOR CAL 714-053 (1A36)   (LUF117)

CAL 714-053 1A36 01 T1 S1   LOWER WING   POWER OFF

MACH (1) = 1.205   ALPHA (8) = 5.960

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.4490		.4750
.400		.3210		.2850		
.550	.0000		.1900			.0550
.600				-.0380		
.700			-.1300		.0000	
.750	.0000	-.3800				
.650				-.2750		
.900				-.3350		-.2930
.950	.0000		-.4450			

MACH (1) = 1.205   ALPHA (9) = 7.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.5160		.5490
.400		.3210		.3080		
.550	.0000		.1970			.0850
.600				-.0240		
.700			-.1180		.0000	
.750	.0000	-.3740				
.800				-.2580		
.850						-.2690
.900			-.4310			
.950	.0000			-.3820		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (.A36)   (LUF118)

CAL T14-053 1A36 O1 T1 S1   LOWER WING   POWER OFF

MACH (1) = 1.206   BETA (5) = -2.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.950	.0000		-.4640			

MACH (1) = 1.205   BETA (6) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2390	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.2670	.1220	.0820		.1160
.550	.0000			.1720		
.600						-.0360
.700						
.750	.0000	-.4340	-.1940	-.1130	.0000	
.800						
.850				-.3400		
.900						-.3120
.950	.0000		-.4960	-.4600		

MACH (1) = 1.205   BETA (7) = 2.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.3240	.1560	.1990		.1730
.550	.0000			.2100		
.600						-.0130
.700						
.750	.0000	-.4010	-.1710	-.0930	.0000	
.800						
.850				-.3230		
.900						-.3070
.350	.0000		-.4790	-.4480		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O1 T1 S1   LOWER WING   POWER OFF   (LUF118)

MACH (1) = 1.207   BETA (8) = 3.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050				.2330		.2050
.400		.3390		.2210		
.550	.0000		.1680			
.600				-.0820		-.0030
.700			-.1630		.0000	
.750	.0000	-.3860				
.800				-.3140		-.3100
.850			-.4720			
.900	.0000			-.4380		
.950						

MACH (1) = 1.206   BETA (9) = 4.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.5730	.7800	.8870
x/c						
.050				.2580		.2220
.400		.3530		.2300		
.550	.0000		.1760			
.600				-.0760		.0000
.700			-.1570		.0000	
.750	.0000	-.3800				
.800				-.3120		-.3120
.850			-.4680			
.900	.0000			-.4370		
.950						

MACH (1) = 1.206   BETA (10) = 6.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.5730	.7800	.8970
x/c						
.050				.3210		.2500
.400		.3860		.2620		
.550	.0000		.2000			
.600				-.0610		.0170
.700			-.1400		.0000	
.750	.0000	-.3690				
.800				-.3030		
.850			-.4610			-.3140
.900						

DATE 05 NOV 75　　　TABULATED DATA FOR CAL T14-053 (1A35)　　　PAGE 659

CAL T14-053 1A36 O1 T1 S1　　LOWER WING　　POWER OFF　　(LUF118)

MACH (1) = 1.206　　BETA (1C) = 6.060

SECTION (1)ORBITER WING　　　DEPENDENT VARIABLE CP

ETA	.2930	.4270	.5340	.6730	.7800	.8870

Y/C
| .950 | .0000 | | | -.3750 | | |

MACH (1) = 1.207　　BETA (11) = 8.090

SECTION (1)ORBITER WING　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C
.050				.3650		.2880
.400		.4160	.2210	.2870		
.550	.0000					.0360
.600						
.700						
.750	.0000		-.1210	-.0450	.0000	
.800		-.3530				
.850			-.2890			
.900			-.4460	-.2960		
.950	.0000					-.3010

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O1 T1 S: LOWER WING POWER OFF   (CUF119)   (09 OCT 73)

REFERENCE DATA

			PARAMETRIC DATA	
SREF = 2690.0000 SQ.IN.	XMRP =	953.0000 IN.	BETA = .000	GP1 = .000
LREF = 1328.0000 IN.	YMRP =	.0000 IN.	GP2 = .000	GY2 = -3.000
BREF = 1328.0000 IN.	ZMRP =	400.0000 IN.	GP3 = .000	GY3 = 3.000
SCALE = .0150 SCALE			GP4 = .000	GP5 = .000

MACH (1) =   .903   ALPHA (1) =   -6.140

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.0120	-.2270	-.5060		-.7010
				-.2030		
.550						
.600	.0000		-.5380	.5340	.0000	-.4580
.700						
.750						
.800	.0000		-.0044	.0000		
.850						
.900			-.1300	-.2360		-.1170
.950	.0000			-.0410		

MACH (1) =   .903   ALPHA (2) =   -4.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.0400	-.1950	-.4820		-.5260
				-.1590		
.550						
.600	.0000					
.700						-.4030
.750	.0000	-.0430	-.5210	-.5140	.0000	
.800						
.850						
.900	.0000		-.0821-	.0622-		-.0850
.950				-.0360		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   (LUF[19])

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER OFF

MACH (1) = .901   ALPHA (3) = -2.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2930	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.0570		-.0800		-.2900
.550				-.1290		
.600			-.1840			
.700				-.4910		-.4120
.750	.0000		-.5190		.0000	
.800	.0000	-.4390				
.850				-.2050		
.900	.0000		-.1050			-.1010
.950	.0000			-.0340		

MACH (1) = .904   ALPHA (4) = .010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.0790		-.0170		-.1070
.550				-.0880		
.600			-.1660			
.700				-.4690		-.3740
.750	.0000		-.4990		.0000	
.800	.0000	-.4420				
.850				-.2690		-.3090
.900	.0000		-.1020			
.950				-.0230		

MACH (1) = .902   ALPHA (5) = 2.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.0880		.1210		.0370
.550				-.0410		
.600			-.1350			
.700				-.4410		-.3380
.750	.0000		-.4650		.0000	
.800	.0000	-.4350				
.850				-.4350		-.4350
.900			-.1660			
.950				-.1660		

DATE 05 NOV 75　　　TABULATED DATA FOR CAL T14-053 (1A36)

(LUF119)

CAL T14-053 1A26 01 T1 S1　　LOWER WING　　POWER OFF

MACH (1) = .902　　ALPHA (5) = 2.010

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.950	.0000			-.1360		

MACH (1) = .903　　ALPHA (6) = 4.000

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050		.1200		.2130		.1630
.400				-.0060		
.550	.0000		-.1140			
.600						
.700			-.3970			-.2940
.750	.0000	-.4310			.0000	
.800						
.850			-.4500			
.900		-.4410				-.4430
.950	.0000		-.2150	-.2100		

MACH (1) = .905　　ALPHA (7) = 6.020

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050		.1360		.2890		.2630
.400				.0280		
.550	.0000		-.0800			
.600						
.700			-.4030	-.3590		-.450
.750	.0000				.0000	
.800						
.850			-.5130			
.900		-.4380				-.4960
.950	.0000		-.3560	-.2880		

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

(LUF119)

MACH (1) = .902   ALPHA (8) = 7.990

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER OFF

SECTION (1) ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		.1320		.3600		.3390
.550			-.0700	.0730		
.600	.0000					-.2080
.700						
.750			-.3980	-.3390		
.800	.0000	-.4620			.0000	
.850				-.5930		
.900	.0000		-.5410	-.5160		
.950						-.5730

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER OFF   (LUF(20) (05 OCT 73)

PARAMETRIC DATA

ALPHA =	.000	GP1 =	.000
GP2 =	.000	GY2 =	-3.600
GP3 =	.000	GY3 =	3.600
GP4 =	.000	GY5 =	.000

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

MACH (1) = .90?   BETA (1) = -8.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		-.1990		-.5100		-.4800
.550				-.2580		
.600			-.3160			-.4490
.700				-.4990		
.750	.0000		-.4420		.0000	
.800		.0000	-.3200	-.3630		
.850			-.1750			
.900						-.1160
.950	.0000			-.0270		

MACH (1) = .903   BETA (2) = -6.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400		-.1500		-.2280		-.3380
.550				-.2200		
.600			-.2980			-.4440
.700				-.5180		
.750	.0000		-.4930		.0000	
.800		.0000	-.3550	-.3090		
.850			-.1500			
.900						-.1310
.950	.0000			-.0270		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   LOWER WING   POWER OFF   (LUF1201)

MACH (1) =   .901   BETA (3) =   -4.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.1210		-.2640
.400		-.1070		-.1930		
.550	.0000		-.2770			
.600						-.4280
.700				-.5280		
.750	.0000	-.4030	-.5270		.0000	
.800				-.2460		
.850						-.1550
.900			-.1310			
.950	.0000			-.0260		

MACH (1) =   .903   BETA (4) =   -3.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.0970		-.2390
.400		-.0990		-.1760		
.550	.0000		-.2630			
.600						-.4150
.700				-.5200		
.750	.0000	-.4130	-.5290		.0000	
.800				-.2230		
.850						-.2370
.900			-.1150			
.950	.0000			-.0230		

MACH (1) =   .902   BETA (5) =   -2.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				-.1030		-.2120
.400		-.0790		-.1580		
.550	.0000		-.2550			
.600						-.4090
.700				-.5130		
.750	.0000	-.4170	-.5370		.0000	
.800				-.2050		
.850						-.3110
.900			-.1040			

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36)

(LUF120)

CAL T14-053 1A36 O1 T1 S1 LOWER WING POWER OFF

MACH (1) = .902 BETA (5) = -2.030

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.950	.0000			-.0340		

MACH (1) = .904 BETA (6) = .000

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050						
.400	.0000	.0830	-.1540	-.0070		-.0940
.550				-.0870		
.600						-.3650
.700			-.4620			
.750	.0000	-.4340	-.4860		.0000	
.800				-.2520		
.900			-.1000	-.0180		-.3010
.950	.0000					

MACH (1) = .901 BETA (7) = 2.030

SECTION (1) ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050				.0870		-.0560
.400	.0000	.1230	-.1290	-.0560		
.600						-.3490
.700			-.4760	-.4460		
.750	.0000	-.4320			.0000	
.800				-.4640		
.900			-.1050	-.0010		-.3170
.950	.0000					

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O1 T1 S1 LOWER WING POWER OFF   (LUF120)

MACH (1) = .901   BETA (8) = 3.040

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050		.1340		.1070		-.0250
.400	.0000			-.0450		
.550			-.1160			
.600	.0000			-.1410		-.3420
.700					.0000	
.750		-.4390	-.4770	-.4890		
.800						
.850	.0000					-.3310
.900			-.1210	-.0290		
.950	.0000					

MACH (1) = .904   BETA (9) = 4.040

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050		.1460		.1360		-.0020
.400	.0000			-.0270		
.550			-.1080			
.600	.0000		-.4290			-.3340
.700					.0000	
.750		-.4530	-.4660	-.4150		
.800						
.850	.0000					-.3620
.900			-.1410	-.1000		
.950	.0000					

MACH (1) = .902   BETA (10) = 6.070

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050		.1710		.1730		.0370
.400	.0000			-.0050		
.550			-.0910			
.600	.0000		-.4180			-.3150
.700					.0000	
.750		-.4760	-.4610	-.4060		
.800						
.850	.0000					-.3990
.900			-.1670			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(LUF120)

CAL T14-053 1A36 O1 T1 S1   LOWER WING   POWER OFF

MACH (1) =   .902   BETA (10) =   6.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.350   .0000   -.1310

MACH (1) =   .900   BETA (11) =   8.100

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.050   .0680
.400   .0000   .1880   .2220
.550   .0130
.600   -.0820   -.2990
.700   -.4090
.750   .0000   -.4570   .0000
.800   -.5280
.850   -.0204
.900   .0000   -.2000
.950   -.1540   -.4020

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O2 T1 S1   UPPER WING   POWER OFF   (UUF015)   (09 OCT 73)

REFERENCE DATA			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP = 953.0000 IN.		BETA = .000	GP1 = 11.000
LREF = 1328.0000 IN.	YMRP = .0000 IN.		GY1 = -9.000	GY2 = -9.000
BREF = 1328.0000 IN.	ZMRP = 400.0000 IN.		GY3 = -9.000	
SCALE = .0190 SCALE				

MACH (1) = .903   ALPHA (1) = -7.760

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0950			.0000		-.1740
.250			.0000	.0000	.0000	
.400	.0000	.0000		.0000		
.550			.0000	.0030		.0000
.600				.0000		
.700						
.725	.0000		-.0860		.0000	
.750						
.800		.0000				
.850	.0000		.0000	.0000		
.900		.0000	.0000	.0000		.0000
.950	.0000	.0000	.0000	.0000		

MACH (1) = .901   ALPHA (2) = -3.820

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.0080			.0000		-.1410
.250			.0000	.0000	.0000	
.400	.0000	.0000		.0000		
.550			.0000	.0000		.0000
.600				.0000		
.700						
.725	.0000		-.0960		.0000	
.750						
.800		.0000				
.850	.0000		.0000	.0000		
.900		.0000	.0000	.0000		.0000
.950	.0000	.0000	.0000	.0000		

CAL T14-053 IA36 C2 T1 S1　　UPPER WING　　POWER OFF　　(UUF015)

MACH (1) = .903　　ALPHA (3) = -.010

SECTION (1)ORBITER WING　　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.0470			.0000	.0000	-.2250
.250			.0000	.0000		
.400		.0000	.0000	.0000		
.550	.0000		.0000	.0000	.0000	
.600						
.700				.0000		
.725			-.1170			
.750	.0000				.0000	
.800		.0000				
.850			.0000			
.900	.0000		.0000	.0000		.0000
.950	.0000	.0000		.0000		

MACH (1) = .899　　ALPHA (4) = 3.710

SECTION (1)ORBITER WING　　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.1030			.0000	.0000	-.2600
.250			.0000	.0000		
.400		.0000	.0000	.0000		
.550	.0000		.0000	.0000	.0000	
.600						
.700				.0000		
.725			-.1090			
.750	.0000				.0000	
.800		.0000				
.850			.0000			
.900	.0000		.0000	.0000		.0000
.950	.0000	.0000		.0000		

MACH (1) = .901　　ALPHA (5) = 7.670

SECTION (1)ORBITER WING　　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.1410			.0000	.0000	-.5330
.250			.0000	.0000		
.400		.0000	.0000	.0000		
.550	.0000		.0000	.0000	.0000	
.600						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 C2 T1 S1   UPPER WING   POWER OFF   (UUFC15)

MACH (1) = .901   ALPHA (5) = 7.670

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725						
.750	.0000	.0000	-.2710	.0000	.0000	
.800						
.850	.0000	.0000				
.900	.0000	.0000	.0000	.0000		
.950	.0000	.0000	.0000	.0000	.0000	

CAL T14-C53 1A35 O2 T1 S1   UPPER WING   POWER OFF

(UUF018)   (09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	GP1 =	11.000
GY1 =	-9.000	GY2 =	-9.000
GY3 =	-9.000		

MACH (1) = 1.201   ALPHA (1) = -8.100

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	-.1180				.0000	.2570
.250			.0000	.0000	.0000	
.400		.0000		.0000		.0000
.550	.0000		.0000	.0000		
.600						
.700						
.725			-.1210		.0000	
.750	.0000			.0000		
.800		.0000				
.850			.0000			
.900	.0000	.0000	.0000	.0000	.0000	.0000
.950						

MACH (1) = 1.203   ALPHA (2) = -6.120

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	-.1370			.0000	.0000	.2420
.250			.0000	.0000		
.400		.0000		.0000		.0000
.550	.0000		.0000	.0000		
.600						
.700						
.725			-.1820		.0000	
.750	.0000			.0000		
.800		.0000				
.850			.0000			
.900	.0000	.0000	.0000	.0000	.0000	.0000
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 T1 S1   UPPER WING   POWER OFF   (UUF018)

MACH (1) = 1.202   ALPHA (3) = -4.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.1490		.5340			.1640
.250			.0000	.0000	.0000	
.400		.0000	.0000	.0000		
.550			.0000	.0000		
.600	.0000					.0000
.700			.0000			
.725			-.1410			
.750				.0000		
.800	.0000	.0000				
.850			.0000			.0000
.900						
.950	.0000	.0000	.0000	.0000		

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 (IA36 02 T1 S1 UPPER WING POWER OFF

(WUF019) (09 OCT 73)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	953.0000 IN.
LREF	=	1328.0000 IN.	YMRP	=	.0000 IN.
BREF	=	1328.0000 IN.	ZMRP	=	400.0000 IN.
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

BETA	=	.000	GP1	=	11.000
GY1	=	-9.000	GY2	=	-9.000
GY3	=	-9.000			

MACH (1) = .904   ALPHA (1) = -8.100

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0920			.0000	.0000	.1780
.250			.0000	.0000		
.400		.0000			.0000	
.550	.0000		.0000	.0000		
.600						.0000
.700						
.725						
.750			-.0920	.0000	.0000	
.800	.0000	.0000				
.850						
.900			.0000	.0000		.0000
.950	.0000	.0000	.0000	.0000		

MACH (1) = .901   ALPHA (2) = -6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0610			.0000	.0000	.0790
.250			.0000	.0000		
.400		.0000			.0000	
.550	.0000		.0000	.0000		
.600						.0000
.700						
.725						
.750			-.0850	.0000	.0000	
.800	.0000	.0000				
.850				.0000		
.900			.0000	.0000		.0000
.950	.0000	.0000	.0000	.0000		

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

(UUF019)

CAL T14-053 1A36 02 T1 S1   UPPER WING   POWER OFF

MACH (1) = .901   ALPHA (3) = -4.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0170		.0000	.0000		-.0360
.250		.0000	.0003	.0000	.0000	
.400	.0000		.0000	.0000		.0000
.550						
.600						
.700						
.725			-.1460		.0000	
.750	.0000					
.800						
.850		.0000	.0000	.0000		.0000
.900						
.950	.0000	.0000	.0000	.0000		.0000

MACH (1) = .902   ALPHA (4) = .010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.0310		.0000	.0000		-.3470
.250		.0000	.0000	.0000	.0000	
.400	.0000		.0000	.0000		.0000
.550						
.600						
.700						
.725			-.0700		.0000	
.750	.0000					
.800						
.850		.0000	.0000	.0000		.0000
.900						
.950	.0000	.0000	.0000	.0000		.0000

MACH (1) = .962   ALPHA (5) = 2.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2390	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.0660		.0000	.0000		-.4820
.250		.0000	.0000	.0000	.0000	
.400	.0000		.0000	.0000		.0000
.550						
.600						

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL T14-053 (?A36)

(UUF0191)

CAL T14-053 1A36 02 T1 S1　　UPPER WING　POWER OFF

MACH (1) = .902　ALPHA (5) = 2.010

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725						
.750			-.1020	.0000		
.800	.0000				.0000	
.850		.0000				.0000
.900				.0000		
.950	.0000	.0000	.0000	.0000		

MACH (1) = .901　ALPHA (6) = 4.030

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.0760		.0000	.0000		-.6010
.250			.0000	.0000		
.400	.0000	.0000	.0000	.0000	.0000	
.550						.0000
.600				.0000		
.700						
.725			-.0630		.0000	
.750	.0000			.0000		
.800		.0000				
.850			.0000	.0000		.0000
.900						
.950	.0000	.0000	.0000	.0000		

MACH (1) = .905　ALPHA (7) = 6.020

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.1020		.0000	.0000		-.7120
.250			.0000	.0000		
.400	.0000	.0000	.0000	.0000	.0000	
.550						.0000
.600				.0000		
.700						
.725			-.1480		.0000	
.750	.0000			.0000		
.800		.0000				
.850			.0000			

TABULATED DATA FOR CAL T14-053 (1A36)

(UUF019)

CAL T14-053 1A36 02 T1 S1   UPPER WING   POWER OFF

MACH (1) =   .905   ALPHA (7) =   6.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.900	.0000	.0000				.0000
.950	.0000	.0000				

MACH (1) =   .901   ALPHA (8) =   7.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.1290		.0000	.0000	.0000	-.8520
.250			.0000	.0000		
.400		.0000		.0000	.0000	
.550			.0000	.0000		
.600						.0000
.700			.0000			
.725			-.2360			
.750	.0000			.0000	.0000	
.800						
.850		.0000				
.900	.0000		.0000	.0000		.0000
.950	.0000		.0000	.0000		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 02 T1 S1   UPPER WING   POWER OFF

(UUF020)   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 953.0000 IN.	
LREF = 1328.0000 IN.	YMRP = .0000 IN.	
BREF = 1328.0000 IN.	ZMRP = 400.0000 IN.	
SCALE = .0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	GP1 =	11.000
GY1 =	-9.000	GY2 =	-9.000
GY3 =	-9.000		

MACH (1) = .903   BETA (1) = -6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

X/C	ETA .2990	.4270	.5340	.6730	.7800	.8870
.050	-.0420		.0000	.0000		-.2050
.250			.0000	.0000	.0000	
.400		.0000		.0000	.0000	
.550			.0000	.0000		.0000
.600				.0000		
.700						
.725			-.2420			
.750	.0000			.0000	.0000	
.800		.0000				
.850				.0000		
.900	.0000	.0000	.0000	.0000		.0000
.950	.0000	.0000	.0000	.0000		

MACH (1) = .901   BETA (2) = -4.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

X/C	ETA .2990	.4270	.5340	.6730	.7800	.8870
.050	-.0510		.0000	.0000		-.2510
.250			.0000	.0000	.0000	
.400		.0000		.0000	.0000	
.550			.0000	.0000		.0000
.600				.0000		
.700						
.725			-.2200			
.750	.0000			.0000	.0000	
.800		.0000				
.850				.0000		
.900	.0000	.0000	.0000	.0000		.0000
.950	.0000	.0000	.0000	.0000		

(UUF0201)

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TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 C2 T1 S1   UPPER WING   POWER OFF

MACH (1) =   .902   BETA (3) =   -2.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.0440		.0000	.0000	.0000	-.2880
.250			.0000	.0000		
.400	.0000	.0000	.0000	.0000		.0000
.550			.0000	.0000		
.600				.0000		
.700						
.725			-.1350			
.750	.0000	.0000		.0000	.0000	
.800						
.850						.0000
.900	.0000	.0000	.0000	.0000		
.950	.0000	.0000	.0000	.0000		

MACH (1) =   .900   BETA (4) =   .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.0410		.0000	.0000	.0000	-.3250
.250			.0000	.0000		
.400	.0000	.0000	.0000	.0000		.0000
.550			.0000	.0000		
.600				.0000		
.700						
.725			-.1160			
.750	.0000	.0000		.0000	.0000	
.800						
.850						.0000
.900	.0000	.0000	.0000	.0000		
.950	.0000	.0000	.0000	.0000		

MACH (1) =   .901   BETA (5) =   4.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.0330		.0000	.0000	.0000	-.3700
.250			.0000	.0000		
.400	.0000	.0000	.0000	.0000		.0000
.550			.0000	.0000		
.600						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)   (UUF020)

CAL T14-053 IA36 02 T1 S1   UPPER WING   POWER OFF

MACH (1) =   .901   BETA (5) =   4.050

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725						
.750			-.0260	.0000		
.800	.0000	.0000			.0000	
.850						
.900			.0000	.0000		.0000
.950	.0000	.0000	.0000	.0000		

MACH (1) =   .899   BETA (6) =   6.090

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.6870
X/C						
.050	-.0430		.0000	.0000	.0000	-.3970
.250			.0000			
.400				.0000	.0000	
.550	.0000	.0000	.0000	.0000		
.600						.0000
.700				.0003		
.725					.0000	
.750			-.0090			
.800	.0000	.0000				
.850			.0000	.0000		
.900					.0000	.0000
.950	.0000	.0000	.0000	.0000		

CAL T14-053 1A36 02 T1 S1   UPPER WING   POWER ON   (UUF073)   (09 OCT 73)

REFERENCE DATA			PARAMETRIC DATA	
SREF = 2690.0000 SQ.FT.	XMRP =	953.0000 IN.	BETA = .000	OPR = 28.310
LREF = 1328.0000 IN.	YMRP =	.0000 IN.	SRMPR = 2.020	GP1 = 11.000
BREF = 1328.0000 IN.	ZMRP =	400.0000 IN.	GY1 = -9.000	GP2 = .000
SCALE = .0190 SCALE			GY2 = -9.000	GP3 = .000
			GY3 = -9.000	

MACH (1) = .901   ALPHA (1) = -8.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.1000			.0000		.1100
.250			.0000		.0000	
.400		.0000		.0000	.0000	
.550			.0000	.0000		.0000
.600						
.700	.0000			.0000		
.725			-.1080			
.750					.0000	
.800	.0000		.0000			
.850		.0000		.0000		.0000
.900			.0000	.0000		
.950	.0000	.0000	.0000	.0000		

MACH (1) = .902   ALPHA (2) = -4.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0420			.0000		-.0800
.250			.0000		.0000	
.400		.0000		.0000	.0000	
.550			.0000	.0000		.0000
.600						
.700	.0000			.0000		
.725			-.1000			
.750					.0000	
.800	.0000		.0000			
.850		.0000		.0000		.0000
.900			.0000	.0000		
.950	.0000	.0000	.0000	.0000		

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TABULATED DATA FOR CAL T14-053 (IA36)

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(UUF073)

CAL T14-053 IA36 O2 TI SI   UPPER WING   POWER ON

MACH (1) = .901   ALPHA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.0190		.0000	.0000	.0000	-.3270
.250		.0000	.0000	.0000	.0000	.0000
.400	.0000		.0000	.0000		.0000
.550						
.600						
.700			-.1100		.0000	
.725						
.750	.0000			.0000		
.800		.0000				
.850						.0000
.900	.0000	.0000	.0000	.0000		
.950						

MACH (1) = .905   ALPHA (4) = 4.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.0640		.0000	.0000	.0000	-.4790
.250		.0000	.0000	.0000	.0000	.0000
.400	.0000		.0000	.0000		.0000
.550						
.600						
.700			-.0790		.0000	
.725						
.750	.0000			.0000		
.800		.0000				
.850						.0000
.900	.0000	.0000	.0000	.0000		
.950						

MACH (1) = .902   ALPHA (5) = 6.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.0920		.0000	.0000	.0000	-.6760
.250		.0000	.0000	.0000	.0000	.0000
.400	.0000		.0000	.0000		.0000
.550						
.600						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 693

                        CAL T14-053 1A36 02 T: S1   UPPER WING   POWER ON   (UUF073)

MACH (1) =   .902   ALPHA (5) =   6.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.700
.725   -.1330
.750
.800   .0000   .0000   .0000   .0000
.850
.900   .0000   .0000   .0000   .0000
.950   .0000   .0000   .0000   .0000   .0000

CAL T14-053 IA36 O2 TI S: UPPER WING   POWER ON   (UUF077)   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 953.0000 IN.	
LREF = 1328.0000 IN.	YMRP = .0000 IN.	
BREF = 1328.0000 IN.	ZMRP = 400.0000 IN.	
SCALE = .0190 SCALE		

PARAMETRIC DATA

BETA = .000	OPR = 36.200
SRMPR = 2.330	OP1 = 11.000
GY1 = -9.000	GP2 = .000
GY2 = -9.000	GP3 = .000
GY3 = -9.000	

MACH (1) = 1.206   ALPHA (1) = -8.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.0870					.2540
.250			.0000	.0000	.0000	
.400		.0000	.0000	.0000		.0000
.550	.0000		.0000	.0000		
.600						
.700			-.0840	.0000	.0000	
.725						
.750	.0000	.0000				
.800						
.850			.0000	.0000		.0000
.900	.0000	.0000	.0000	.0000		
.950						

MACH (1) = 1.205   ALPHA (2) = -4.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	-.1210		.0000	.0000	.0000	-.0230
.250			.0000	.0000	.0000	
.400		.0000	.0000	.0000		.0000
.550	.0000		.0000	.0000		
.600						
.700			-.1120	.0000		
.725						
.750	.0000			.0000	.0000	
.800		.0000				
.850			.0000	.0000		.0000
.900	.0000	.0000	.0000	.0000		
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O2 T1 S1   UPPER WING   POWER ON   (UUF077)

MACH (1) = 1.202   ALPHA (3) =   .020

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	-.1470		.0000	.0000	.7800	-.1760
.250			.0000			
.400	.0000	.0000	.0000	.0000	.0000	.0000
.550				.0000		
.600						
.700			.0000			
.725			-.1390			
.750	.0000	.0000			.0000	.0000
.800						
.850				.0000		
.900			.0000			
.950	.0000	.0000	.0000	.0000		.0000

MACH (1) = 1.193   ALPHA (4) = 4.050

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	-.1840		.0000	.0000	.7800	-.2220
.250			.0000	.0000		
.400	.0000	.0000	.0000	.0000	.0000	.0000
.550			.0000			
.600				.0000		
.700						
.725			-.2190			
.750	.0000	.0000			.0000	.0000
.800						
.850				.0000		
.900			.0000			
.950	.0000	.0000	.0000	.0000		.0000

MACH (1) = 1.204   ALPHA (5) = 6.050

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	-.1790		.0000	.0000	.7800	-.2710
.250			.0000	.0000		
.400	.0000	.0000	.0000	.0000	.0000	.0000
.550			.0000			
.600						.0000

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 695

                        CAL T14-053 1A36 02 T1 S1   UPPER WING POWER ON   (UUF077)

MACH (1) = 1.204   ALPHA (5) =   6.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.700
.725   -.2690   .0000
.750   .0000   .0000
.800   .0000
.850   .0000   .0000
.900   .0000   .0000
.950   .0000   .0000   .0000   .0000   .0000

DATE 05 NOV 73   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 (1A36 01 T1 S1   UPPER WING   POWER OFF

(UUF081)   (09 OCT 73)

REFERENCE DATA

SREF	= 2690.0000 SQ.FT.	XMRP = 953.0000 IN.
LREF	= 1328.0000 IN.	YMRP = .0000 IN.
BREF	= 1328.0000 IN.	ZMRP = 400.0000 IN.
SCALE	= .0190 SCALE	

PARAMETRIC DATA

BETA =	.000	GP1 =	.000
CY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	.000
GY3 =	3.500	RUDDER =	.000

MACH (1) = 1.205   ALPHA (1) = -8.110

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.3100	.3350	.0000	.3280
.250			-.0710			
.400		-.0360		-.1440		
.550	.0000		.0080	-.0430		-.1720
.600				-.1640		
.700						
.725					.0000	
.750	.0000	-.0830	-.1240			
.800				-.1380		
.850			-.0080			-.0080
.900	.0000	.0730		.0460		
.950						

MACH (1) = 1.201   ALPHA (2) = -4.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0030		.1700	.1780	.0000	.1780
.250			-.1840			
.400		-.1960		-.3470		
.550	.0000		-.0800	-.2150		-.4170
.600				-.2040		
.700						
.725					.0000	
.750	.0000	-.1250	-.1630			
.800				-.1600		
.850			-.0700			-.0170
.900	.0000	-.0060		.0140		
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)   PAGE 699

CAL T14-053 IA36 01 T1 S1   UPPER WING   POWER OFF   (UUFC81)

MACH (1) =   1.204   ALPHA (3) =   .050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0330	-.0110	.0000	.0000
.250			-.2940			
.400				-.4720		
.550	.0000	-.2890	-.3060	-.4780		-.4810
.600						
.700				-.3150		
.725			-.1890			
.750	.0000				.0000	
.800						
.850		-.1540		-.1600		
.900			-.1100			-.2330
.950	.0000	-.0390		-.0440		

MACH (1) =   1.202   ALPHA (4) =   4.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8570
X/C						
.050	.0000		-.1830	-.2120	.0000	-.1770
.250			-.4070			
.400				-.6000		
.550	.0000	-.3450	-.4400	-.5780		-.5930
.600						
.700				-.5100		
.725			-.2730			
.750	.0000				.0000	
.900		-.1970				
.850				-.2910		
.900			-.1530			-.3540
.950	.0000	-.0700		-.1590		

MACH (1) =   1.198   ALPHA (5) =   6.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2600	-.3060	.0000	-.2610
.250			-.5040			
.400				-.6570		
.550	.0000	-.3700	-.4850	-.637?		
.600						-.6490

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 699

MACH (1) =   1.198   ALPHA (5) =   6.000   CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER OFF   (UUF081)

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
 .700
 .725   -.3290 -.5680
 .750   .0000   .0000
 .800   -.2170
 .850   -.3520
 .900   .0000   -.0860 -.1930 -.2330
 .950   -.3920

CAL T14-053 IA36 01 T1 S1   UPPER WING   POWER OFF   (UUFC82)   (09 CCT 73)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF	=	1328.0000 IN.	YMRP =	.0000 IN.
BREF	=	1328.0000 IN.	ZMRP =	400.C000 IN.
SCALE	=	.0190 SCALE		

PARAMETRIC DATA

ALPHA	=	.000	GP1 =	.0C0
GY1	=	.000	CP2 =	.0C0
GY2	=	-3.500	GP3 =	.0C0
GY3	=	3.500	RUDDER =	.0C0

MACH (1) = 1.202   BETA (1) = -6.080

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.00J0		-.0230	.0210	.0000	.0050
.250			-.2650			
.400		-.2770		-.4270		
.550	.0000		-.1950	-.3580		
.600						-.4730
.700				-.2540		
.725			-.2310			
.750	.0000				.0000	
.800		-.2230				
.850				-.2240		
.900	.0000	-.0850	-.1720			-.1100
.950				-.1000		

MACH (1) = 1.203   BETA (2) = -3.050

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0180	-.0110	.0000	.0010
.250			-.2860			
.400		-.2920		-.4580		
.550	.0000		-.2410	-.4750		
.600						-.4890
.700				-.2780		
.725			-.2200			
.750	.0000				.C000	
.800		-.2010				
.850				-.2060		
.900	.0000	-.0750	-.1550	-.0750		-.1900
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(UUF082)

CAL T14-053 (A36 O1 T1 S1) UPPER WING POWER OFF

MACH (1) = 1.204   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0250	-.0100	.0000	.0020
.250			-.2970			
.400	.0000	-.2900	-.2250	-.4710		
.550				-.4800		
.600						-.4790
.700			-.1880	-.3080		
.725						
.750	.0000				.0000	
.800		-.1590				
.850						
.900			-.1060	-.1720		
.950	.0000	-.0440		-.0480		-.2250

MACH (1) = 1.201   BETA (4) = 3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0160	-.0260	.0000	.0010
.250			-.3360			
.400	.0000	-.3040	-.3940	-.4960		
.550				-.5160		
.600						-.5330
.700			-.1890	-.3800		
.725						
.750	.0000				.0000	
.800		-.1160				
.850						
.900			-.0740	-.1920		
.950	.0000	-.0120		-.0660		-.3010

MACH (1) = 1.203   BETA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0640	-.0480	.0000	.0120
.250			-.3930			
.400	.0000	-.3400	-.4290	-.5560		
.550				-.5680		
.600						-.5350

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

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CAL T14-053 1A36 O1 T1 S: UPPER WING POWER OFF

(UUF082)

MACH (1) = 1.203   BETA (5) = 6.090

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725				-.4640		
.750	.0000		-.2280		.0000	
.800		-.0900				
.850				-.2520		
.900	.0000	.0320	-.0590			
.950			-.1560			-.3600

CAL T14-053 1A36 O1 T1 S1   UPPER WING   POWER ON   (UUF083)   (09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	OFR =	36.200
SRMPR =	2.330	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	.000
GY3 =	3.500	RUDDER =	.000

MACH (1) = 1.199   ALPHA (1) = -8.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.000C		.3230	.3520	.0000	.3300
.250			-.0540			
.400		-.0350	.0190	-.1720		
.550	.0000			-.0290		
.600						-.1630
.700						
.725			-.1230	-.1540		
.750	.0000				.0000	
.800		-.0650				
.850						
.900	.0000		-.0030	-.1260		.0060
.950			.0930	.0620		

MACH (1) = 1.196   ALPHA (2) = -4.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.1880	.2090	.0000	.1870
.250			-.1730			
.400		-.1710	-.0580	-.3310		
.550	.0000			-.1730		
.600						-.4030
.700						
.725			-.1530	-.1900		
.750	.0000				.0000	
.800		-.1070				
.850						
.900	.0000		-.0500	-.1450		.0240
.950			.0170	.0340		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(UUF0831)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON

MACH (1) = 1.200   ALPHA (3) = -.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0370	.0060	.0000	.0120
.250		-.2810	-.2820			
.400	.0000		-.3040	-.4580		
.550				-.4750		
.600				-.2950		-.4760
.700						
.725			-.1790			
.750	.0000				.0000	
.800		-.1460				
.850				-.1510		
.900	.0000		-.0910			-.2080
.950	.0000	-.0250	-.0160			

MACH (1) = 1.196   ALPHA (4) = 3.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1710	-.2050	.0000	-.1760
.250			-.3990			
.400	.0000	-.3420	-.4370	-.6090		
.550				-.5770		
.600				-.5080		-.6000
.700						
.725			-.2660			
.750	.0000				.0000	
.800		-.1860				
.850				-.2820		
.900	.0000		-.1520			-.3860
.950	.0000	-.0560	-.1380			

MACH (1) = 1.200   ALPHA (5) = 6.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2480	-.3040	.0000	-.2550
.250			-.5130			
.400	.0000	-.3560	-.4740	-.6600		
.550			-.4740	-.6370		
.600				-.6440		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O1 T1 S1   UPPER WING   POWER ON   (UUF083)

MACH (1) = 1.200   ALPHA (5) = 6.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725						
.750	.0000		-.3210	-.5770		
.800		-.2080			.0000	
.850						
.900	.0000	-.0660	-.1880	-.3420		-.4260
.950			-.2180			

CAL T14-053 IA36 01 T1 S1   UPPER WING   POWER ON   (UUF084)   (09 OCT 73)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT.	XMRP = 953.0000 IN.	
LPEF = 1328.0000 IN.	YMRP = .0000 IN.	
BREF = 1328.0000 IN.	ZMRP = 400.0000 IN.	
SCALE = .0190 SCALE		

PARAMETRIC DATA

ALPHA = .000	OPR = 36.200
SRMPR = 2.330	GP1 = .000
GY1 = .000	GP2 = .000
GY2 = -3.500	GP3 = .000
GY3 = 3.500	RUDDER = .000

MACH (1) = 1.196   BETA (1) = -6.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0180	0210		.0140
.250			-.2460		.0000	
.400	.0000	-.2690	-.1380	-.4250		
.550				-.2980		
.600						-.4840
.700			-.2290	-.2500		
.725						
.750	.0000				.0000	
.800		-.2160				
.850				-.2210		
.900			-.1870			-.1010
.950	.0000	-.0720		-.0740		

MACH (1) = 1.201   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0060	.0160		.0130
.250			-.2700		.0000	
.400	.0000	-.2640	-.1760	-.4410		
.550				-.4490		
.600						-.4830
.700			-.2030	-.2560		
.725						
.750	.0000				.0000	
.800		-.1870				
.850				-.1880		
.970			-.1400			
.950	.0000	-.0590		-.0370		-.1610

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

(UUF084)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON

MACH (1) = 1.198   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0200	.0000	.0000	.0030
.250		-.2860	-.2760			
.400	.0000		-.2960	-.4610		
.550				-.4770		
.600						-.4860
.700			-.1810	-.3010		
.725						
.750		-.1480				
.800	.0000				.0000	
.850						
.900		-.0970	-.1510			
.950	.0000	-.0280	.0000	-.0080		-.2150

MACH (1) = 1.199   BETA (4) = 3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0000	-.0110	.0000	.0130
.250		-.2950	-.3290			
.400	.0000		-.3860	-.4890		
.550				-.5180		
.600						-.5270
.700			-.1690	-.3820		
.725						
.750	.0000				.0000	
.800		-.1010				
.850				-.1690		
.900			-.0520			-.3120
.950	.0000	.0080	.0000	-.0190		

MACH (1) = 1.199   BETA (5) = 6.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
Y/C						
.050	.0000		-.0490	-.0390	.0000	.0170
.250			-.3900			
.400	.0000	-.3330	-.4200	-.5690	.000C	
.550				-.5780		
.600						-.5400

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S: UPPER WING   POWER ON   (UUF084)

MACH (1) =   1.199   BETA (5) =   6.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C

.700						
.725			-.2120	-.4730		
.750	.0000	-.0680			.0000	
.800						
.850				-.2400		
.900	.0000	.0570	-.0390	-.1240		-.4090
.950						

DATE 05 NOV 73   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 709

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF095)   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 953.0000 IN.
LREF = 1328.0000 IN.   YMRP =   .0000 IN.
BREF = 1328.0000 IN.   ZMRP = 400.0000 IN.
SCALE =   .0190 SCALE

PARAMETRIC DATA

BETA   =   .000   OPR   = 95.800
SRMPR =   2.330   GP1   =   .000
GY1   =   .000   GP2   =   .000
GY2   = -3.500   GP3   =   .000
GY3   =   3.500   RUDDER =   .000

MACH (1) = 1.195   ALPHA (1) = -8.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2930	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.3410	.3530	.0000	.3470
.250		-.0170	-.0460	-.1490		
.400	.0000		.0340	-.0270		
.550						
.600				-.1530		-.1600
.700						
.725			-.1190			
.750	.0000				.0000	
.800		-.0610				
.850				-.1240		
.900	.0000		.0010	.0730		.0090
.950	.0000	.1030				

MACH (1) = 1.194   ALPHA (2) = -4.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.1920	.2060	.0000	.1880
.250		-.1870	-.1680	-.3380		
.400	.0000		-.0550	-.2070		
.550						
.600				-.1890		-.4180
.700						
.725			-.1560			
.750	.0000				.0000	
.800		-.1110				
.850				-.1480		
.900	.0000		-.0620	-.1480		.0050
.950	.0000	.0200	.0360			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(UUF085)

CAL T14-053 1A36 O1 T1 S1   UPPER WING   POWER ON

MACH (1) = 1.196   ALPHA (3) = -.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0330	-.0050		.0060
.250			-.2800		.0000	
.400	.0000	-.2810	-.3070	-.4650		
.550				-.4840		
.600						-.4850
.700						
.725				-.3120		
.50	.0000		-.1800		.0000	
.800		-.1450				
.850				-.1540		
.900			-.1020			
.950	.0000	-.0240		-.0030		-.2150

MACH (1) = 1.199   ALPHA (4) = 5.970

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2380	-.2900		-.2370
.250			-.5120		.0000	
.400	.0000	-.3680	-.4720	-.6580		
.550				-.6520		
.600						-.6410
.700						
.725				-.5720		
.750	.0000		-.3220		.0000	
.800		-.2030				
.850				-.3470		
.900			-.1870			
.950	.0000	-.0580		-.2120		-.4390

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 C1 T1 S1   UPPER WING   POWER ON

(UUF086)   (C3 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   AMRP = 953.0000 IN.
LREF = 1328.0000 IN.   YMRP =   .0000 IN.
BREF = 1328.0000 IN.   ZMRP = 400.0000 IN.
SCALE =   .0190 SCALE

PARAMETRIC DATA

BETA =   .000   OPR   = 66.700
SRMPR =   2.330   GP1   =   .000
GY1   =   .000   GP2   =   .000
GY2   = -3.500   GP3   =   .000
GY3   =   3.500   RUDDER =   .000

MACH (1) = 1.191   ALPHA (1) = -8.120

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.3270	.3430		.3340
.250			-.0550		.0000	
.400	.0000	-.0400	.0180	-.1680		
.550				-.0380		
.600						-.1620
.700			-.1300	-.1550		
.725						
.750	.0000	-.0690			.0000	
.800				-.1310		
.850						
.900	.0000	.0920	-.0080	.0620		.0040
.950						

MACH (1) = 1.196   ALPHA (2) = -4.090

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.1870	.1930		.1900
.250			-.0820		.0000	
.400	.0000	-.1860	.0480	-.3330		
.550				.1990		
.600						-.4120
.700			-.1500	-.1860		
.725						
.750	.0000	-.1090			.0000	
.800				-.1420		
.850						
.900	.0000	.0220	-.0550	.0420		.0060
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (I436)

CAL T14-053 !A36 O1 T1 S1   UPPER WING   POWER ON   (UUF086)

MACH (1) = 1.199   ALPHA (3) = -.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0210	.0010	.0000	.0100
.250		-.2780	-.2820			
.400	.0000		-.3040	-.4600		
.550				-.4770		-.4880
.600						
.700				-.3060		
.725			-.1750		.0000	
.750	.0000	-.1430				
.800				-.1460		
.850			-.0950			-.2120
.900	.0000	-.0220		.0070		
.950						

MACH (1) = 1.199   ALPHA (4) = 3.980

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1600	-.1980	.0000	-.1680
.250			-.4000			
.400	.0000	-.3350		-.6140		
.550			-.4350	-.5730		-.5980
.600						
.700				-.5120		
.725			-.2510		.0000	
.750	.0000	-.1770				
.800				-.2740		
.850			-.1410			-.4430
.900	.0000	-.0480		-.1080		
.950						

MACH (1) = 1.200   ALPHA (5) = 6.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2370	-.2900	.0000	-.2430
.250			-.5030			
.400	.0000	-.3510		-.5560		
.550			-.4730	-.6320		
.600						-.6330

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 T1 S1   UPPER WING   POWER ON   (UUF086)

MACH (1) = 1.200   ALPHA (5) = 6.060

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725			-.2970	-.5890		
.750	.0000	-.1980			.0000	
.800						
.850			-.1720	-.3260		
.900	.0000	-.0560	-.1890			
.950						-.4350

CAL T14-053 (A36 01 T1 S1　UPPER WING　POWER ON　　(UUF087)　(09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	OPR =	36.200
SRMPR =	3.170	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	.000
GY3 =	3.500	RUDDER =	.000

MACH (1) = 1.197　　ALPHA (1) = -8.110

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.3000	.3200	.0000	.3140
.250			-.0780			
.400		-.0430		-.0980		
.550	.0000		.0040	-.0510		
.600						-.1820
.700						
.725			-.1290	-.1730		
.750	.0000				.0000	
.800		-.0840				
.850				-.1470		
.900			-.0170	.0430		-.0200
.950	.0000	.0650				

MACH (1) = 1.201　　ALPHA (2) = -3.880

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8670
X/C						
.050	.0000		.1870	.2000	.0000	.1910
.250			-.1620			
.400		-.1840		-.3370		
.550	.0000		-.0510	-.2710		
.600						-.4120
.700						
.725			-.1380	-.1780		
.750	.0000				.0000	
.800		-.0990				
.850				-.1390		
.900			-.0540	.0460		.0040
.950	.0000	.0280				

CAL T14-053 1A36 01 T1 S1　UPPER WING　POWER ON　　(UUF087)

MACH (1) = 1.198　ALPHA (3) = .170

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0350	.0000		.0070
.250			-.2780		.0000	
.400		-.2740		-.4570		
.550	.0000		-.3130	-.4760		-.4950
.600				-.3070		
.700						
.725			-.1690			
.750	.0000				.0000	
.800		-.1390				
.850				-.1410		
.900			-.0960			-.2260
.950	.0000	-.0140		.0130		

MACH (1) = 1.198　ALPHA (4) = 4.230

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1580	-.1980		-.1690
.250			-.4060		.0000	
.400		-.3340		-.6170		
.550	.0000		-.4350	-.5810		-.6000
.600				-.5270		
.700						
.725			-.2480			
.750	.0000				.0000	
.800		-.1770				
.850				-.2740		
.900			-.1380			-.4840
.950	.0000	-.0440		-.1010		

MACH (1) = 1.197　ALPHA (5) = 6.130

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2380	-.2790		-.2410
.250			-.5070		.0000	
.400		-.3590		-.6650		
.550	.0000		-.4730	-.6530		
.600						-.6320

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON

(UJF0087)

MACH (1) = 1.197   ALPHA (5) =   6.130

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725						
.750	.0000	-.2030	-.3020	-.6000		
.800					.0000	
.850	.0000	-.0550	-.1710	-.3230		
.900				-.1920		
.950						-.4440

CAL T14-053 IA36 O1 T1 S1   UPPER WING   POWER OFF

(UUFC88)   (09 OCT 73)

PARAMETRIC DATA

BETA	=	.000	GP1	= .000
GY1	=	.000	GP2	= .000
GY2	=	-3.500	GP3	= .000
GY3	=	3.500	RUDDER	= .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF = 1328.0000 IN.	YMRP =	.0000 IN.
BREF = 1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE = .0190 SCALE		

MACH (1) = .898   ALPHA (1) = -8.070

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0000		.2460	.2540	.0000	.1430
.250		-.1570	-.1390			
.400	.0000		-.3550	-.3660		
.550				-.4480		
.600						-.6050
.700			-.1470	-.1830		
.725	.0000				.0000	
.750						
.800	.0000	-.0250				
.850						
.900	.0000	.0360	.0890	.0940		.0920
.950				.1310		

MACH (1) = .902   ALPHA (2) = -4.050

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0000		-.0590	.0700	.0000	-.0410
.250		-.2450	-.3080			
.400	.0000		-.4100	-.4690		
.550				-.5410		
.600						-.5960
.700			-.2030	-.2180		
.725	.0000				.0000	
.800	.0000	-.0290				
.850						
.900	.0000	.0420	.0900	.0640		.0520
.950				.1300		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 T1 S1   UPPER WING   POWER OFF   (IJUF088)

MACH (1) = .899   ALPHA (3) = -.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2410	-.2250	.0000	-.3770
.250			-.1910			
.400		-.3450				
.550	.0000		-.4900	-.6010		
.600				-.6210		
.700				-.1810		-.3200
.725						
.750	.0C00		-.1480		.0000	
.800						
.850		-.0350		.0330		
.900	.0000		.0890			
.950	.0000	.0540		.1170		-.0200

MACH (1) = .900   ALPHA (4) = 4.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.4740	-.5740	.0000	-.6330
.250			-.6570			
.400		-.4550				
.550	.0000		-.5370	-.8810		
.600				-.6490		
.700				-.1860		-.5670
.725						
.750	.0000		-.1030		.0000	
.800						
.850	.0000	-.0370				
.900	.0000		.0630	-.0050		
.950	.0000	.0820		.0970		-.3630

MACH (1) = .901   ALPHA (5) = 5.970

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.6170	-.7030	.0000	-.7400
.250			-.7780			
.400		-.5310				
.550	.0000		-.4770	-.9720		
.600				-.4930		-.5720

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 T1 S1   UPPER WING   POWER OFF   (UJF088)

MACH (1) = .901   ALPHA (5) = 5.970

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C

.700						
.725				-.3190		
.750			-.1510			
.800	.0000				.0000	
.850		-.0380				
.900				-.1500		
.950	.0000	.0790	.0310	-.0200		-.4820

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL T14-053 (IA36)　　　　PAGE 720

CAL T14-053 IA36 01 TI SI　　UPPER WING　　POWER OFF　　(UUF089)　　(09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF = 1328.0000 IN.	YMRP =	.0000 IN.
BREF = 1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE = .0190 SCALE		

MACH (1) = .903　BETA (1) = -6.080

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0720	-.0910	.0000	-.2400
.250			-.3540			
.400		-.3010				
.550	.0000		-.4880	-.5420		
.600				-.5970		
.700						-.2870
.725				-.3640		
.750	.0000				.0000	
.800		-.1560				
.850				-.0490		
.900	.0000		.0300			
.950	.0000	.0020		.0570		-.0780

MACH (1) = .899　ETA (2) = -3.050

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1780	-.1770	.0000	-.3150
.250			-.4320			
.400		-.3330				
.550	.0000		-.4960	-.5670		
.600				-.6160		
.700						-.3680
.725				-.2750		
.750	.0000				.0000	
.800		-.1060				
.850				-.0160		
.900	.0000		.0350			
.950	.0000	.0290		.0870		-.1070

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (?A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER OFF   (UUF089)

MACH (1) = .902   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2240	-.2240		-.3600
.250		-.3510	-.4880		.0000	
.400	.0000		-.4830	-.5970		
.550				-.6140		-.3830
.600						
.700			-.2220	-.1900		
.725						
.750	.0000	-.0380			.0000	
.800						
.850			.0740	.0200		
.900	.0000					
.950	.0000	.0500		.1090		-.0540

MACH (1) = .901   BETA (4) = 3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2860	-.2900		-.3930
.250		-.3670	-.5650		.0000	
.400	.0000		-.4610	-.6580		
.550				-.6010		-.3330
.600						
.700			-.0520	-.0910		
.725						
.750						
.800	.0000	.0280			.0000	
.850						
.900		.0890	.1250	.0950		
.903						
.950	.0000			.1650		.0080

MACH (1) = .901   BETA (5) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.3590	-.3720		-.4000
.250		-.3700	-.5840		.0000	
.400	.0000		-.3460	-.8380		
.550				-.4660		
.600						-.3880

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER OFF   (UUF089)

MACH (1) = .901   BETA (5) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725			-.0040	-.0390		
.750					.0000	
.800	.0000	.0670				
.850			.1390	.1350		
.900	.0000	.1190				
.950			.1740			-.0530

CAL T14-053 1A36 01 T1 S1 UPPER WING POWER ON   (UUF090)   ' 09 OCT 73 '

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP = 953.0000 IN.
LREF	=	1326.0000 IN.	YMRP = .0000 IN.
BREF	=	1326.0000 IN.	ZMRP = 400.0000 IN.
SCALE	=	.0190 SCALE	

PARAMETRIC DATA

BETA	=	.000	OPR	= 28.310
SRMPR	=	2.020	GP1	= .000
GY1	=	.000	CP2	= .000
GY2	=	-3.500	GP3	= .000
GY3	=	3.500	RUDCER	= .000

MACH (1) = .899   ALPHA (1) = -3.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0790	.0980	.0000	-.0250
.250			-.2830			
.400	.0000	-.2220	-.3900	-.4520		
.550				-.5240		-.5140
.600				-.1620		
.700			-.1370			
.725	.0000				.0000	
.750		.0020				
.800				.1030		.0980
.850			.1220	.1680		
.900	.0000	.0700				
.950						

MACH (1) = .899   ALPH. (2) = .100

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2020	-.2130	.0000	-.3520
.250			-.4670	-.5880		
.400	.0000	-.1210	-.4810	-.5960		
.550				-.1460		-.3380
.600			-.1530			
.700	.0000	-.0010			.0000	
.725						
.750				.0680		-.0040
.800			.1040	.1530		
.850	.0000	.0820				
.900						
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF090)

MACH (1) = .897   ALPHA (3) = 4.030

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.4650	-.5660		-.6210
.250			-.5480		.0000	
.400	.0000	-.4420	-.5200	-.8750		
.550				-.6440		
.600						-.5590
.700			-.1110	-.1760		
.725						
.750	.0000				.0000	
.800		-.0230				
.850				.0200		
.900	.0000	.1040	.0730	.1200		
.950						-.3630

MACH (1) = .901   ALPHA (4) = 5.980

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.5900	-.6900		-.7310
.250			-.7480		.0000	
.400	.0000	-.5070	-.4980	-.9870		
.550				-.4670		
.600						-.5600
.700			-.1390	-.2770		
.725						
.750	.0000				.0000	
.800		-.0070				
.850				-.1140		
.900	.0000	.1090	.0440	.0430		
.950						-.4770

DATE 05 NOV 73   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON

(UUF091)   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF = 1328.0000 IN.	YMRP =	.0000 IN.
BREF = 1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE = .0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	OPR	28.310
SRMPR =	2.020	GP1	.000
GY1 =	.000	GP2	.000
GY2 =	-3.500	GP3	.000
GY3 =	3.500	RUDDER	.000

MACH (1) = .897   BETA (1) = -6.080

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0007		-.0570	-.0700	.0000	-.2290
.250			-.3330			
.400		-.2890		-.5250		
.550	.0000		-.4680	-.5870		
.600						-.4660
.700						
.725			-.5750			
.750	.0000			-.4560		
.800		-.1750			.0000	
.850						
.900			.0220	-.0340		-.0670
.950	.0000	.0140		.0840		

MACH (1) = .899   BETA (2) = -3.050

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1450	-.1400	.0000	-.2940
.250			-.4150			
.400		-.3110		-.5520		
.550	.0000		-.4780	-.5930		
.600						-.3300
.700						
.725			-.3010	-.2700		
.750	.0000				.0000	
.800		-.0080				
.850			.0720	.0130		
.900						-.0460
.950	.0000	.0440		.1110		

DATE 05 NOV 75   TABULATED DATA FOR CAL T1 -053 (1A36)

(JJF091)

CAL T14-053 1A3E 01 T1 S1   UPPER WING   POWER ON

MACH (1) =   .900   BETA (3) =   .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2120	-.1990		-.3410
.250			-.4660		.0000	
.400	.0000	-.3250	-.4580	-.5860		
.550				-.5940		
.600						-.3780
.700			-.1850	-.1910		
.725						
.750	.0000				.0000	
.800		-.0220				
.850			.1060	.0420		-.0110
.900	.0000	.0720		.1350		
.950						

MACH (1) =   .898   BETA (4) =   3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2710	-.3020	.0000	-.3800
.250			-.5300			
.400	.0000	-.3480	-.4280	-.6330		
.550				-.5900		
.600						-.3190
.700			-.0300	-.0610		
.725						
.750	.0000	.0580			.0000	
.800			.1460	.1360		.0450
.850						
.900	.0000	.1190	.1460	.2060		
.950						

MACH (1) =   .900   BETA (5) =   6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.3270	-.3560	.0000	-.3920
.250			-.5610			
.400	.0000	-.3520	-.3330	-.8150		
.550				-.4190		
.600						-.3490

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

                        CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF091)

MACH (1) = .900   BETA (5) = 6.080

SECTION (1)ORBITER WING   CEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C
.700						
.725			.0240	.0000	.0000	
.750	.0000					
.800		.0980				
.850			.1710	.1700		
.900	.0000	.1450				
.950			.2040			.0570

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36) PAGE 728

CAL T14-053 1A36 O! T1 S1 UPPER WING POWER ON (UUF092) (09 OCT 73)

REFERENCE DATA

SPEF = 2690.0000 SQ.FT.	XMRP = 953.0000 IN.	
LREF = 1328.0000 IN.	YMRP = .0000 IN.	
BREF = 1328.0000 IN.	ZMRP = 400.0000 IN.	
SCALE = .0190 SCALE		

PARAMETRIC DATA

BETA	=	.000	OPR	= 70.500
SRMPR	=	2.020	GP1	= .000
GY1	=	.000	GP2	= .000
GY2	=	-3.500	GP3	= .000
GY3	=	3.500	RUDDER	= .000

MACH (1) = .900 ALPHA (1) = -8.140

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8970
X/C						
.050	.0000		.2920	.2850	.0000	.1630
.250			-.0920			
.400		-.1260				
.550	.0000		-.3150	-.3290		
.600				-.4210		
.700				-.1620		-.5770
.725			-.1270			
.750	.0000				.0000	
.800		.0020				
.850				.1280		
.900	.0000	.0600	.1170	.1750		
.950						.1360

MACH (1) = .899 ALPHA (2) = -4.020

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8970
X/C						
.050	.0000		.0860	.0960	.0000	-.0250
.250			-.2800			
.400		-.2160				
.500			-.3820	-.4450		
.550	.0000			-.5300		
.700				-.1570		-.5360
.725			-.1870			
.750	.0000				.0000	
.800		.0040				
.850				.1190		
.900	.0000	.0750	.1230	.1800		
.950						.1110

CATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(UUF092)

CAL T14-053 1A36 O1 T1 S1   UPPER WING   POWER ON

MACH (1) = .903   ALPHA (3) = .020   DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1820	-.1790		-.3330
.250			-.4550			
.400	.0000	-.3110	-.4450	-.5660	.0000	
.550				-.5810		
.600						-.3830
.700	.0000		-.2000	-.1410		
.725						
.750					.0000	
.800	.0000	.0040				
.850						
.900	.0000	.0910	.1110	.0800		
.950				.1510		.0400

MACH (1) = .900   ALPHA (4) = 4.020   DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.4530	-.5590		-.6060
.250			-.6570			
.400	.0000	-.4380	-.5110	-.8690	.0000	
.550				-.6510		
.600						-.5580
.700	.0000		-.1090	-.1760		
.725						
.750					.0000	
.800	.0000	-.0310				
.850						
.900	.0000	.0970	.0680	.0000		
.950				.1040		-.4080

MACH (1) = .898   ALPHA (5) = 6.010   DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.5940	-.6950		-.7430
.250			-.7590			
.400	.0003	-.5140	-.5060	-1.0040	.0300	
.550				-.4650		
.600						-.5710

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF092)

MACH (1) = .898   ALPHA (5) = 6.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C					
.700					
.725			-.1360	-.2880	
.750	.0000	-.0210			.0000
.800					
.850			.0560	-.1230	
.900	.0000	.1040		.0180	-.4930
.950					

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF093)   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP =	953.0000 IN.	
LREF = 1328.0000 IN.	YMRP =	.0000 IN.	
BREF = 1328.0200 IN.	ZMRP =	400.0000 IN.	
SCALE = .0190 SCALE			

PARAMETRIC DATA

BETA =	.000	OPR =	48.600
SRMPR =	2.020	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	.000
GY3 =	3.500	RUDDER =	.000

MACH (1) = .898   ALPHA (1) = -8.100

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.2790	.2870	.0000	.1580
.250			-.1050			
.400		-.1390		-.3410		
.550	.0000		-.3280	-.4360		
.600						-.5860
.700				-.1910		
.725			-.1440			
.750	.0000				.0000	
.800		-.0090				
.850				.1160		
.900			.1070			.1220
.950	.0000	.0520		.1550		

MACH (1) = .900   ALPHA (2) = -3.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0810	.0850	.0000	-.0180
.250			-.2940			
.400		-.2200		-.4380		
.550	.0000		-.3850	-.5180		
.600						-.5860
.700				-.1850		
.725			-.2060			
.750	.0000				.0000	
.800		-.0010				
.850				.1070		
.900			-.1			.0900
.950	.0000	.0670		.1570		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)   (UUF0931)

CAL T14-053 IA36 O1 TI S1   UPPER WING   POWER ON

MACH (1) = .899   ALPHA (3) = .060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2390	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2170	-.2100	.0000	-.3560
.250			-.4740			
.400		-.3270	-.4580	-.5850		
.550	.0000			-.6000		-.4180
.600						
.700			-.1870	-.1930		
.725						
.750	.0000				.0000	
.800						
.850		-.0250		.0480		
.900						
.950	.0000	.0710	.0940	.1410		.0140

MACH (1) = .906   ALPHA (4) = 4.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.4430	-.5420	.0000	-.6070
.250			-.6250	-.8520		
.400		-.4240	-.4970	-.6380		
.550	.0000			-.1690		-.5440
.600						
.700			-.0910			
.725						
.750	.0000				.0000	
.800						
.850		-.0220		.0290		
.900						
.950	.0000	.1110	.0860	.1340		-.3690

MACH (1) = .898   ALPHA (5) = 6.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7900	.8870
X/C						
.050	.0000		-.6030	-.6930	.0000	-.7360
.250			-.7690	-1.0070		
.400		-.5220	-.5210	-.4910		
.550	.0000					-.5690
.600						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF093)

MACH (1) = .898   ALPHA (5) = 6.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C						
.700						
.725			-.1450	-.2973		
.750						
.800	.0000	-.0330			.0000	
.850				-.1210		
.900	.0000	.0970	.0450	.0110		
.950						-.5070

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 73.

                              CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF094)   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 953.0000 IN.
LREF = 1328.0000 IN.   YMRP =   .0000 IN.
BREF = 1328.0000 IN.   ZMRP = 400.0000 IN.
SCALE =   .0190 SCALE

PARAMETRIC DATA

BETA   =   .000   CPR   = 28.310
SRMPR =   2.400   GP1   =   .000
GY1   =   .000   GP2   =   .000
GY2   = -3.500   GP3   =   .000
GY3   =   3.500   RUDDER =   .000

MACH (1) = .898   ALPHA (1) = -7.970

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.2870	.2940		.1730
.250			-.0980		.0000	
.400		-.1280		-.3270		
.550	.0000		-.3180	-.4180		
.600				-.0890		-.4460
.700						
.725				-.0770		
.750	.0000				.0600	
.800		.0190				
.850				.1450		
.900			.1340	.1850		.1510
.950	.0000	.0750				

MACH (1) = .895   ALPHA (2) = -3.980

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0730	.0900	.0000	-.0270
.250			-.2640			
.400		-.2270		-.4490		
.550	.0000		-.3870	-.5280		
.600				-.1320		-.3490
.700						
.725				-.0870		
.750	.0000				.0000	
.800	.0000	.0110				
.850				.1290		
.900			.1390	.1850		.1430
.950	.0000	.0800				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   (UJF094)

CAL T14-053 (A36 01 TI S1)   UPPER WING   POWER ON

MACH (1) = .902   ALPHA (3) = .120

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1880	-.1950		-.3390
.250			-.4430			
.400	.0000	-.3100	-.4370	-.5680	.0000	
.550				-.5810		
.600				-.0890		-.2640
.700						
.725			-.0780			
.750	.0000				.0000	
.800						
.85						
.900	.0000	.0310		.1150		
.950	.0000	.1090	.1450	.2000		.0720

MACH (1) = .906   ALPHA (4) = 4.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.4330	-.5470		-.5970
.250			-.6340			
.400	.0000	-.4190	-.4870	-.8490	.0000	
.550				-.6030		
.600				-.1410		-.5240
.700						
.725			-.0480			
.750	.0000				.0000	
.800						
.850	.0000	.0090		.0690		
.900						-.3070
.950	.0000	.1360	.1230	.1860		

MACH (1) = .898   ALPHA (5) = 6.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.6060	-.7000		-.7460
.250			-.7490			
.400	.0000	-.5090	-.4240	-.9860	.0000	
.550				-.4420		
.600						-.5520

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (!A36)

CAL T14-053 !A36 01 T1 S1   UPPER WING   POWER ON   (UUF094)

MACH (1) = .898   ALPHA (5) = 6.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.5070	.5340	.6730	.7800	.8870

X/C

X/C						
.700						
.725			-.1170	-.2760		
.750						
.800	.0000	.0040			.0000	
.850				-.0760		
.900	.0000	.1250	.0850	.0760		-.4680
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O1 T1 S1   UPPER WING   POWER OFF   (UUFO95)   (09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	.000
GY3 =	3.500	RUDDER =	10.000

MACH (1) = 1.20W   ALPHA (1) = -8.100

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.3030	.3450		.3160
.250			-.0750		.0000	
.400		-.0360				
.550	.0000		.0110	-.0670		
.600				-.0180		
.700						-.1980
.725				-.1430		
.750	.0000		-.1000		.0000	
.800		-.0820				
.850				-.1130		
.900			.0110			
.950	.0000	.0730		.0640		-.0270

MACH (1) = 1.20W   ALPHA (2) = -4.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.1760	.2160		.1660
.250			-.1780		.0000	
.400		-.2000				
.550	.0000		-.0720	-.3130		
.600				-.1960		
.700						-.4460
.725				-.1700		
.750	.0000		-.1350		.0000	
.800		-.1230				
.850				-.1310		
.900			-.0450			
.950	.0000	-.0040		.0350		-.0320

DATE 05 NOV 75

TABULATED DATA FOR CAL T1W-053 (1A36)

(UUF095)

CAL T1W-053 1A36 O1 T1 S1   UPPER WING   POWER OFF

MACH (1) = 1.207   ALPHA (3) = -.020

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.5730	.7600	.8870
x/C						
.050	.0000					
.250		-.2880	.0040	.0240		
.400			-.2920		.0000	-.0120
.550	.0000		-.3050	-.4260		
.600	.0000			-.4440		-.5030
.700				-.2740		
.725		-.1570	-.16:0			
.750	.0000				.0000	
.800						
.850		-.0800	-.1370			
.900	.0000	-.0400		-.0210		-.2380
.950						

MACH (1) = 1.206   ALPHA (4) = 3.990

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/C						
.050	.0000		-.1620	-.1760		-.1930
.250			-.4040			
.400		-.3410		-.5580	.0000	
.600	.0000		-.4280	-.5320		-.6280
.700						
.725			-.2370	-.4390		
.750	.0000				.0000	
.800		-.1870				
.850			-.1260	-.2560		-.3600
.900	.0000	-.0630		-.1330		
.950						

MACH (1) = 1.204   ALPHA (5) = 6.030

SECTION (1)ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/C						
.050	.0000		-.2560	-.2700		-.2870
.250			-.5260			
.400		-.3660		-.6240	.0000	
.550	.0000		-.4810	-.5970		
.600						-.6760

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL T:4-053 (1A36)

CAL T14-053 !A36 O! T! S!　UPPER WING　POWER OFF　　　(U;JF095)

MACH (1) = 1.204　ALPHA (5) = 6.030

SECTION ( ))ORBITER WING　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C
.700						
.725				-.5200		
.750	.0090		-.3000		.0000	
.800		-.2140				
.850				-.3220		
.900	.0000	-.0830	-.1680	-.2000		-.4090
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-C53 (1A36)   PAGE 74?

(UUF096)   (09 OCT 73)

CAL T14-053 1A36 O1 T1 S1   UPPER WING   POWER OFF

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF = 1328.0000 IN.	YMRP =	.0000 IN.
BREF = 1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE = .0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	-3.500
GY3 =	3.500	RUDDER =	10.000

MACH (1) = 1.202   BETA (1) = -6.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0230	.0480	.0000	-.0090
.250			-.2620			
.400		-.2820		-.3900		
.550	.0000		-.1650	-.2910		
.600						-.5130
.700				-.2280		
.725			-.2030			
.750				.0000		
.800	.0000	-.2240				
.850				-.2020		
.900			-.1600			-.1330
.950	.0000	-.0920		-.0750		

MACH (1) = 1.206   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0060	.0270	.0000	-.0080
.250			-.2850			
.400		-.2850		-.4120		
.550	.0000		-.2080	-.4300		
.600						-.5140
.700				-.2470		
.725			-.1890			
.750				.0000		
.800	.0000	-.2020				
.850				-.1700		
.900			-.1270			-.2020
.950	.0000	-.0780		-.0440		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER OFF   (UJF0961)

MACH (1) = 1.205   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0480	.0250	.0000	-.0110
.250		-.2880	-.2880			
.400				-.4250		
.550	.0000		-.3020	-.4380		-.5070
.600						
.700			-.1640	-.2730		
.725						
.750	.0000				.0000	
.800		-.1560		-.1350		
.850						
.900			-.0790			-.2350
.950	.0000	-.0410		-.0170		

MACH (1) = 1.205   BETA (4) = 3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0020	.0030	.0000	-.0040
.250			-.3400			
.400				-.4540		
.550	.0000	-.3060	-.3820	-.4850		-.5710
.600						
.700				-.3410		
.725			-.1630			
.750	.0000				.0000	
.800		-.1210		-.1660		
.850						
.900			-.0470			-.3000
.950	.0000	-.0120		-.0440		

MACH (1) = 1.204   BETA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0550	-.0220	.0000	.0030
.250			-.4010			
.400		-.3410		-.5290		
.550	.0000		-.4290	-.5290		
.600						-.5790

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

PAGE 742

(UUF096)

CAL T14-053 IA36 01 T1 S1   UPPER WING   POWER OFF

MACH (1) =   1.204   BETA (5) =   6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.700
.725   .0000   -.2070 -.4020
.750   -.0900
.800   .0000
.850   .0000   -.0360 -.2280
.900   .0320
.950   -.1300   -.3220

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL T14-053 (IA36)　　　　PAGE 743

CAL T14-053 IA36 OI TI SI　UPPER WING　POWER ON

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 953.0000 IN.
LREF = 1328.0000 IN.	YMRP = .0000 IN.
BREF = 1328.0000 IN.	ZMRP = 400.0000 IN.
SCALE = .0190 SCALE	

MACH (1) = 1.188　ALPHA (1) = -7.790

SECTION (1)ORBITER WING　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000					.2980
.250			.2920	.3190	.0000	
.400		-.0860	-.0840			
.550	.0000		.0020	-.2310		
.600				-.0340		
.700						-.2070
.725			-.1150	-.1540		
.750						
.800	.0000	-.0950			.0000	
.850			-.0060	-.1190		
.900		.0700				
.950	.0000			.0570		-.0190

MACH (1) = 1.205　ALPHA (2) = -4.020

SECTION (1)ORBITER WING　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000					.1840
.250			.2010	.2290	.0000	
.400		-.1680	-.1590			
.550	.0000		-.0390	-.2850		
.600				-.1400		
.700						-.4320
.725			-.1140	-.1480		
.750						
.800	.0000	-.1000			.0000	
.850			-.0220	-.1070		
.900		.0240				
.950	.0000			.0650		.0000

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

PAGE 744

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF097)

MACH (1) = 1.187   ALPHA (3) = 4.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1750	-.1950		-.2140
.250			-.4390		.0000	
.400		-.3610				
.550	.0000		-.4600	-.6020		
.600				-.5620		-.6640
.700						
.725				-.4800		
.750	.0000		-.2630		.0000	
.800						
.850		-.2060				
.900			-.1590	-.2800		
.950	.0000	-.0750		-.1470		-.4060

MACH (1) = 1.192   ALPHA (4) = 6.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2520	-.2760		-.2950
.250			-.5350		.0000	
.400		-.3800				
.550	.0000		-.4830	-.6460		
.600				-.6330		-.7000
.700						
.725				-.5430		
.750	.0000		-.3160		.0000	
.800						
.850		-.2150				
.900			-.1860	-.3320		
.950	.0000	-.0800		-.1980		-.4380

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON

(UUF098)   (09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	CPR =	36.200
SRMPR =	2.330	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	.000
GY3 =	3.500	RUDDER =	10.000

MACH (1) = 1.196   BETA (1) = -6.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0240	.0480	.0000	-.0080
.250			-.2590			
.400		-.2710		-.3880		
.550	.0000		-.1520	-.2570		-.5220
.600						
.700			-.2040	-.2190		
.725						
.750	.0000				.0000	
.800		-.2230				
.850						
.900	.0000	-.0870	-.1620	-.2020		-.1260
.953				-.0690		

MACH (1) = 1.207   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0130	.0560	.0000	.0100
.250			-.2660			
.400		-.2520		-.3930		
.550	.0000		-.1700	-.3870		-.5050
.600						
.700			-.1640	-.2210		
.725						
.750	.0000				.0000	
.800		-.1770				
.850						
.900	.0000	-.0540	-.1020	-.1570		-.1730
.950				-.0150		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

(UUF098)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON

MACH (1) = 1.204   BETA (3) = .000

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0460	.0260	.0000	-.0100
.250			-.2740			
.400	.0000	-.2790	-.2960	-.4210		
.550				-.4310		-.5030
.600				-.2590		
.700			-.1480		.0000	
.725						
.750	.0000	-.1380				
.800						
.850				-.1200		
.900	.0000		-.0630			-.2330
.950	.0000	-.0100		.0010		

MACH (1) = 1.204   BETA (4) = 3.050

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0050	.0220	.0000	.0060
.250			-.3240	-.4390		
.400	.0000	-.2890	-.3680	-.4630		-.5590
.600				-.3220		
.725			-.1450		.0000	
.750	.0000	-.0910				
.850				-.1330		-.3080
.900	.0000		-.0280	-.0120		
.950	.0000	.0200				

MACH (1) = 1.205   BETA (5) = 6.080

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0320	-.0050	.0000	.0160
.250			-.3780	-.5150		
.400	.0000	-.3240	-.4150	-.5190		-.5640
.550						
.600						

CATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O: T1 S1   UPPER WING   POWER ON   (CUF0098)

MACH (1) = 1.205   BETA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C
.700
.725
.750 | .0000 | | -.1870 | -.4110 | |
.800 | | -.0700 | | | .0000 |
.850
.900 | .0000 | .0620 | -.0130 | -.1990 | |
.950 | | | -.1030 | | -.3580 |

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O1 T1 S1   UPPER WING   POWER ON   (UUF099)   (09 OCT 73

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 953.0000 IN.
LREF = 1328.0000 IN.   YMRP = .0000 IN.
BREF = 1328.0000 IN.   ZMRP = 400.0000 IN.
SCALE = .0190 SCALE

PARAMETRIC DATA

ALPHA	=	.000	OPR	=	97.600
SRMRP	=	2.330	GP1	=	.000
GY1	=	.000	GP2	=	.000
GY2	=	-3.500	GP3	=	.000
GY3	=	3.500	RUDDER	=	10.000

MACH (1) = 1.203   BETA (1) = -6.080   DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0200	.0570	.0000	-.0100
.250			-.2450			
.400		-.2630	-.1560	-.3790		
.550	.0000			-.3020		-.5040
.600						
.700			-.1880	-.2060		
.725					.0000	
.750	.0000	-.2080				
.800				-.1790		-.1170
.850						
.900			-.1420			
.950	.0000	-.0690		-.0430		

MACH (1) = 1.203   BETA (2) = -3.050   DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0020	.0390	.0000	.0040
.250			-.2780			
.400		-.2760	-.2080	-.4050		
.550	.0000			-.4280		-.5150
.600						
.700			-.1770	-.2250		
.725					.0000	
.750	.0000	-.1880				
.800				-.1540		-.1920
.850						
.900			-.1110			
.950	.0000	-.0530		-.0260		

CAL T14-053 (1A36 01 T1 S)   UPPER WING   POWER ON   (UUF099)

MACH (1) = 1.061   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2390	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0000		-.0280	-.0170	.0000	-.0880
.250			-.2450			
.400	.0000	-.1260	-.2170	-.3460		
.550				-.3010		-.5370
.600						
.700				-.3800		
.725						
.750	.0000		-.3010		.0000	
.800		-.2810				
.850				-.2190		
.900	.0000	-.0790	-.1250	-.0410		-.1370
.950						

MACH (1) = 1.118   BETA (4) = 2.980

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0000		-.0330	-.0270	.0000	-.0670
.250			-.3330			
.400	.0000	-.3230	-.1590	-.4970		
.550				-.3460		
.600						-.6130
.700				-.2880		
.722						
.750	.0000		-.2430		.0000	
.800		-.2100				
.850				-.1690		
.900						-.2380
.950	.0000	-.0700	-.1160	-.0110		

MACH (1) = 1.199   BETA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0000		-.0360	-.0150	.0000	.0110
.250			-.3880			
.400	.0000	-.3400	-.4300	-.5360		
.550				-.5400		
.600						-.5770

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 750

MACH (1) = 1.199   BETA (5) = 6.080   CAL T14-053 1A36 01 T1 S1 UPPER WING POWER ON   (UUF099)

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.700
.725   -.2040 -.4260
.750   .0000
.800   -.0720   .0000
.950
.900   .0000   .0580   -.0310 -.2240
.950   -.1250 -.3970

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A35)

CAL T14-053 (1A35 01 T: S!   UPPER WING   POWER OFF

(UUF100)   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 953.0000 IN.
LREF = 1328.0000 IN.   YMRP = .0000 IN.
BREF = 1328.0000 IN.   ZMRP = 400.0000 IN.
SCALE = .0190 SCALE

PARAMETRIC DATA

BETA	=	.000	GP1 =	.000
GY1	=	.000	GP2 =	.000
GY2	=	-3.500	GP3 =	-3.500
GY3	=	3.500	RUDDER =	:0.000

MACH (1) = .902   ALPHA (1) = -8.100

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2790	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.2420	.2550	.0000	.1510
.250			-.1440			
.400		-.1610		-.3570		
.550	.0000		-.3440	-.4450		
.600						-.5770
.700				-.1800		
.725			-.1320			
.750					.0000	
.800	.0000	-.0230				
.850				.0790		
.900			-.0840			.1020
.950	.0000	.0330		.1110		

MACH (1) = .907   ALPHA (2) = -4.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8670
X/C						
.050	.0000		.0490	.0680	.0000	-.0390
.250			-.3090			
.400		-.2440		-.4660		
.550	.0000		-.4190	-.5240		
.600						-.6250
.700				-.3070		
.725			-.2800			
.750					.0000	
.800	.0000	-.0490				
.850				.0360		
.900			.0740			.0150
.950	.0000	.0380		.1010		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1%36)

CAL T14-053 IA35 01 T1 S1   UPPER WING   POWER OFF   (UUF100)

MACH (1) = .899   ALPHA (3) = .020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0000		-.2350	-.2190	.0000	-.3750
.250			-.4920			
.400	.0000	-.3670	-.4830	-.6000		
.550				-.6060		-.3270
.600						
.700			-.1650	-.1920		
.725						
.750	.0000	-.0430			.0000	
.800						
.850			.0650	.0030		
.900						-.0580
.950	.0000	.0460		.0820		

MACH (1) = .903   ALPHA (4) = 3.980

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0000		-.4510	-.5590	.0000	-.6240
.250			-.6620			
.400	.0000	-.4350	-.5290	-.8460		
.550				-.5260		-.5360
.600						
.700			-.1410	-.2280		
.725						
.750	.0000	-.0340			.0000	
.800						
.850			.0510	-.0490		
.900						-.3430
.950	.0000	.0830		.0600		

MACH (1) = .900   ALPHA (5) = 6.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0000		-.6060	-.6940	.0000	-.7570
.250			-.7800			
.400	.0000	-.5370	-.4420	-.7170		
.450				-.5430		
.600	.0000					-.5860

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O1 T1 S1 UPPER WING POWER OFF

(UUF100)

MACH (1) = .900   ALPHA (5) = 6.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C

.700						
.725			-.2070	-.3890		
.750					.0000	
.800	.0000	-.0600				
.850			-.0010	-.2410		
.900	.0000	.0550				-.4890
.950				-.0600		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 TI S1   UPPER WING   POWER OFF   (UUF101)   (09 OCT 73)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	953.0000 IN.
LREF	=	1328.0000 IN.	YMRP	=	.0000 IN.
BREF	=	1328.0000 IN.	ZMRP	=	400.0000 IN.
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

ALPHA	=	.000	GP1	=	.000
GY1	=	.000	GP2	=	.000
GY2	=	-3.500	GP3	=	.000
GY3	=	3.500	RUDDER	=	10.000

MACH (1) = .900   BETA (1) = -6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0790	-.0910		-.2350
.250			-.3560		.0000	
.400		-.3080				
.550	.0000		-.4990	-.5320		
.600				-.5940		
.700						-.3410
.725			-.5040			
.750	.0000				.0000	
.800		-.1570				
.850				-.0570		
.300	.0000		.0030	.0420		-.0890
.950		-.0020				

MACH (1) = .901   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1720	-.1760		-.3180
.250			-.4140		.0000	
.400		-.3450				
.550	.0000		-.4950	-.5460		
.600				-.6070		
.700						-.3270
.725			-.3200			
.750	.0000				.0000	
.800		-.0950				
.850				-.0310		
.900	.0000		.0290	.0720		-.0840
.950		.0270				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 T1 S1   UPPER WING POWER OFF   (UUF101)

MACH (1) = .903   BETA (3) = .000   DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2240	-.2040		-.3460
.250			-.4750			
.400		-.3560		-.5870	.0000	
.550	.0000		-.4730	-.5930		
.600						
.700						-.3210
.725			-.1750	-.1820		
.750	.0000					
.800					.0000	
.850		-.0330		.0090		
.900						-.0560
.950	.0000	.0550	.0740	.0890		

MACH (1) = .902   BETA (4) = 3.050   DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2800	-.2780		-.3990
.250			-.5440			
.400		-.3760		-.6310	.0000	
.550	.0000		-.4470	-.5860		
.600						
.700						-.3380
.725			-.0630	-.0940		
.750	.0000					
.800					.0000	
.850		.0300		.0700		
.900						-.0350
.953	.0000	.0930	.1040	.1460		

MACH (1) = .903   BETA (5) = 6.090   DEPENDENT VARIABLE CP

SECTION (1) ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.3460	-.3660		-.4000
.250			-.5820			
.400		-.3800		-.8080	.0000	
.550	.0000		-.3370	-.4070		
.600						-.4260

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 756

                                  CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER OFF   (UUF101)

MACH (1) =   .903   BETA (5) =   6.090

SECTION . 1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.700
.725
.750   .0000   -.0220 -.0640
.800   .0570   .0000
.850
.900   .0000   .1250   .0920
.950   .1180   .1360   -.1400

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O1 T1 S1   UPPER WING   POWER ON   (UUF102)   (09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

BETA =	.000	OPR =	28.310
SRMPR =	2.020	GP1 =	.000
CY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	.000
GY3 =	3.500	RUDDER =	10.000

MACH (1) = .899   ALPHA (1) = -7.860

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.2720	.2810	.0000	.1540
.250			-.1180			
.400		-.1400		-.3270		
.550	.0000		-.3230	-.4150		-.5830
.600						
.700			-.1250	-.1360		
.725					.0000	
.750	.0000					
.800		.0010				
.850				.1190		
.900			.1070			.1170
.950	.0000	.0560		.1620		

MACH (1) = .901   ALPHA (2) = -4.040

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0910	.0870	.0000	-.0220
.250			-.2910			
.400		-.2210		-.4600		
.550	.0000		-.3950	-.5110		-.5080
.600						
.700			-.1630	-.2250		
.725					.0000	
.750	.0000					
.800		-.0180				
.850				.0680		
.900			.1000			.0780
.950	.0000	.0600		.1350		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O1 T1 S1   UPPER WING   POWER ON   (UUF102)

MACH (1) =   .901   ALPHA (3) = -.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

X/C	ETA .2990	.4270	.5340	.6730	.7800	.8870
.050	.0000		-.2020	-.1930		-.3400
.250			-.4450		.0000	
.400	.0000	-.3360	-.4580	-.5800		
.550				-.5750		-.3230
.600						
.700			-.1580	-.1830		
.725	.0000				.0000	
.750						
.800		-.0210				
.850			.0860	.0250		-.0250
.900	.0000	.0740		.1040		
.950						

MACH (1) =   .904   ALPHA (4) = 4.110

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

X/C	ETA .2990	.4270	.5440	.6730	.7800	.8870
.050	.0000		-.4400	-.5500		-.6200
.250			-.6500		.0000	
.400	.0000	-.4300	-.5090	-.8430		
.550				-.5320		-.5370
.600						
.700			-.1070	-.2420		
.725						
.750						
.800	.0000	-.0490			.0000	
.850			.0660	-.0630		-.3550
.900	.0000	.0910		.0510		
.950						

MACH (1) =   .920   ALPHA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

X/C	ETA .2990	.4270	.5340	.6730	.7800	.8870
.050	.0000		-.5290	-.6310		-.7030
.250			-.7020		.0000	
.400	.0000	-.4430	-.3800	-.6500		
.550				-.4250		-.5070
.600						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O1 T1 S1   UPPER WING   POWER ON   (UUF102)

MACH (1) = .920   ALPHA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725						
.750			-.1420	-.2770		
.800	.0000	.0300			.0000	
.850						
.900	.0000	.1500	.0720	-.0670		
.950			.0440			-.3960

DATE 05 NOV 75　　　　　TABULATED DATA FOR CAL T14-053 (IA36)　　　　　PAGE 760

CAL T14-053 IA36 01 T1 S1　UPPER WING　POWER ON

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	953.0000 IN.
LREF	=	1328.0000 IN.	YMRP	=	.0000 IN.
BREF	=	1328.0000 IN.	ZMRP	=	00.0000 IN.
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

ALPHA	=	.000	OPR	=	28.310
SRMPR	=	2.020	GP1	=	.000
GY1	=	.000	GP2	=	.000
GY2	=	-3.500	GP3	=	.000
GY3	=	3.500	RUDDER	=	10.000

MACH (1) =　.904　BETA (1) =　-6.090

SECTION (1) ORBITER WING　　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0000		-.0370	-.0490		-.2270
.250			-.3140		.0000	
.400	.0000	-.2740	-.4540	-.5030		
.550				-.5670		
.600						-.3440
.700			-.5330	-.3370		
.725						
.750	.0000				.0000	
.800		-.1370				
.850				-.0280		
.900	.0000	.0300	.0280	.0770		-.0560
.950						

MACH (1) =　.896　BETA (2) =　-3.050

SECTION (1) ORBITER WING　　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0000		-.1630	-.1510		-.2900
.250			-.3950		.0000	
.400	.0000	-.3320	-.4850	-.5380		
.550				-.6000		
.600						-.3770
.700			-.3900	-.3170		
.725						
.750	.0000				.0000	
.800		-.1180				
.850				-.0360		
.900	.0000	.0250	.0320	.0620		-.0810
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 T1 S1   UPPER WING   POWER ON   (UUF103)

MACH (1) = .907   BETA (3) = .000

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2030	-.1910	.0000	-.3440
.250			-.4440			
.400	.0000	-.3320	-.4440	-.5650		
.550				-.5690		
.600						-.3180
.700			-.1660	-.1540		
.725					.0000	
.750	.0000	.0000				
.810						
.850				.0470		
.900	.0000	.0890	.0940	.1350		-.0200
.950						

MACH (1) = .901   BETA (4) = 3.060

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2850	-.2830	.0000	-.3840
.250			-.5210			
.400	.0000	-.3630	-.4170	-.6410		
.550				-.5850		
.600						-.3530
.700			-.0550	-.1040		
.725						
.750	.0000	.0340			.0000	
.800						
.850				.0830		
.900	.0000	.1070	.1180	.1590		-.0420
.950						

MACH (1) = .896   BETA (5) = 6.090

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.3350	-.3580	.0000	-.3930
.250			-.5710			
.400	.0000	-.3650	-.3050	-.7870		
.550				-.3650		
.600						-.4220

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

                                CAL T14-053 IA36 01 T1 S1   UPPER WING POWER ON   (UUF103)

MACH (1) =   .89E   BETA (5) =   6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
 .700
 .725   -.0070 -.0380
 .750   .0000   .0000
 .800   .0800
 .850   .1430   .1280
 .900   .0000   .1400
 .950   .1650   -.0850

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053.(1A36)

CAL T14-053 1A36 O1 T1 S1   UPPER WING   POWER ON   (UUF104)   (09 OCT 73)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF	=	1328.0000 IN.	YMRP =	.0000 IN.
BREF	=	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE	=	.0190 SCALE		

PARAMETRIC DATA

ALPHA	=	.000	OPR =	69.300
SRMPR	=	2.020	GP1 =	.000
GY1	=	.000	GP2 =	.000
GY2	=	-3.500	GP3 =	.000
GY3	=	3.500	RUDDER =	10.000

MACH (1) = .398   BETA (1) = -6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0460	-.0600	.3000	-.2240
.250			-.3240			
.400	.0000	-.2850	-.4670	-.5170		
.550				-.5790		-.4380
.600						
.700			-.6000	-.4790		
.725						
.750	.0000	-.197.			.0000	
.800						
.850				-.0520		
.900	.0000	.00 0	.0040	.0520		-.0900
.950						

MACH (1) = .898   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1600	-.1480	.0000	-.3000
.250			-.3920			
.400	.0000	-.3350	-.4800	-.5340		
.550				-.5930		-.4070
.600						
.700			-.4970	-.4230		
.725						
.750	.0000	-.164C			.0000	
.800						
.850				-.0530		
.900	.0000	.0210	.0230	.0570		-.1020
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 T1 S1   UPPER WING   POWER ON   (UUF1041)

MACH (1) = .892   BETA (3) = .000   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2100	-.1970	.0000	-.3460
.250			-.4540			
.400	.0000	-.3270	-.4500	-.5800		
.550				-.5770		
.600						-.3130
.700			-.2070	-.1540		
.725						
.750	.0000				.0000	
.800		-.0010				
.850						
.900	.0000	.0810	.0940	.0450		-.0330
.950	.0000			.1250		

MACH (1) = .900   BETA (4) = 3.060   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2740	-.2590	.0000	-.3730
.250			-.5240			
.400	.0000	-.3510	-.4170	-.6190		
.550				-.5650		
.600						-.3310
.700			-.0380	-.0670		
.725						
.750	.0000				.0000	
.800		.0570				
.850						
.900	.0000	.1230	.1330	.1080		.0100
.950	.0000			.1750		

MACH (1) = .896   BETA (5) = 6.090   DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.3340	-.3700	.0000	-.4030
.250			-.5690			
.400	.0000	-.3740		-.8290		
.550			-.3070	-.3810		
.600	.0000					-.4350

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 C1 T1 S1   UPPER WING   POWER ON   (UUF104)

MACH (1) = .896   BETA (5) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725				-.0360		
.750	.0000		-.0080			
.800		.0850			.0000	
.850				.1300		
.900	.0000	.1470	.1410			-.1320
.950				.1790		

CAL T14-053 1A36 01 T1 S1 UPPER WING POWER ON   (UUF105)   (09 OCT 75)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF	=	1328.0000 IN.	YMRP =	.0000 IN.
BREF	=	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE	=	.0190 SCALE		

PARAMETRIC DATA

ALPHA	=	.000	OPR	=	36.200
SHMPR	=	2.330	GP1	=	.000
GY1	=	.000	GP2	=	.000
GY2	=	-3.500	GP3	=	.000
GY3	=	3.500	RUDDER	=	.000

MACH (1) =   1.206   BETA (1) = -6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0080	.0590	.0000	.0080
.250			-.2350			
.400		-.2600	-.1360	-.3700		
.550	.0000			-.2760		
.600						-.5040
.700			-.1840	-.2060		
.725						
.750	.0000	-.2060			.0000	
.800						
.850			-.1430	-.1510		
.900						-.0990
.950	.0000	-.0670		-.0470		

MACH (1) =   1.202   BETA (2) = -3.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0100	.0250	.0000	.0010
.250			-.2810			
.400		-.2800		-.4110		
.550	.0000		-.2180	-.4380		
.600						-.5200
.700				-.2350		
.725			-.1810			
.750	.0000				.0000	
.800		-.1970				
.850				-.1640		
.900			-.1210			-.1950
.950	.0000	-.0650		-.0260		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF105)

MACH (1) = 1.202   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0330	.0230		-.0020
.250			-.2750		.0000	
.400		-.2750	-.3070	-.4210		-.5100
.650				-.4410		
.600	.0000					
.700						
.725			-.1480	-.2740		
.750	.0000				.0000	
.800		-.1430				
.850				-.1180		-.2360
.900	.0000	-.0220	-.0700	.0130		
.950						

MACH (1) = 1.197   BETA (4) = 3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0000	.0040		-.0060
.250			-.3230		.0000	
.400		-.2490	-.3880	-.4570		-.5790
.550				-.4840		
.600						
.700						
.725			-.1530	-.3350		
.750					.0000	
.800	.0000	-.1020				
.850				-.1460		-.3130
.900	.0000	.0070	-.0310	-.0030		
.950						

MACH (1) = 1.207   BETA (5) = 6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0380	-.0090	.0030	.0130
.250		.3790				
.400		-.3250	-.4170	-.5320		
.550			-.5360			
.600	.0000					-.5740

TABULATED DATA FOR CAL T14-053 (:A36)

CAL T14-053 IA36 01 T1 S1   UPPER WING   POWER ON

(UUF105)

MACH (1) = 1.207   BETA (5) =   6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C						
.700						
.725			-.1880	-.4260		
.750					.0000	
.800	.0000	-.0690				
.850				-.2110		
.900			-.0140			
.950	.0000	.0610		-.1080		-.3920

DATE 05 NOV 75　　　TABULATED DATA FOR CAL T14-053 (IA36)　　　PAGE 769

CAL T14-053 (A36 O1 T1 S1　UPPER WING　POWER OFF　　(UUF106)　(09 OCT 73)

MACH (1) = 1.208　BETA (1) = -6.080

SECTION (1)ORBITER WING　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0160	.0410	.0000	-.0050
.250		-.2730	-.2580	-.3890		
.400	.0000		-.1500	-.2750		
.550				-.2180		-.5100
.600						
.700						
.725	.0000		-.1970		.0000	
.750						
.800		-.2230				
.850			-.1980			
.900	.0000	-.0920	-.1600			-.1160
.950			-.0680			

MACH (1) = 1.206　BETA (2) = -3.050

SECTION (1)ORBITER WING　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0160	.0160	.0000	-.0110
.250		-.2880	-.2840	-.4160		
.400	.0000		-.2100	-.4370		
.550				-.2490		-.5210
.600						
.700						
.725	.0000		-.1870		.0000	
.750						
.800		-.2040				
.850			-.1790			
.900	.0000	-.0810	-.1310			-.2040
.950			-.0380			

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1 UPPER WING POWER OFF

(UUF106)

MACH (1) = 1.206 BETA (3) = .000

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0180	.0060		-.0160
.250			-.2960		.0000	
.400		-.2930		-.4290		
.550	.0000		-.3280	-.4490		
.600						-.5180
.700				-.2930		
.725						
.750	.0000		-.1600		.0000	
.800		-.1590				
.850				-.1410		
.900						-.2440
.950	.0000	-.0460	-.0820	-.0040		

MACH (1) = 1.206 BETA (4) = 3.050

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0100	-.0100		-.0120
.250			-.3340		.0000	
.400		-.3010		-.4570		
.550	.0000		-.3930	-.4910		
.600						-.5750
.700				-.3590		
.725						
.750	.0000		-.1580		.0000	
.800		-.1160				
.850				-.1650		
.900						-.3290
.950	.0000	-.0140	-.0420	-.0240		

MACH (1) = 1.205 BETA (5) = 6.080

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0580	-.0280		-.0070
.250			-.3960		.0000	
.400		-.3420		-.5370		
.550	.0000		-.4350	-.5460		
.600						-.5840

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER OFF   (UUF106)

MACH (1) = 1.205   BETA (5) = 6.080

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700				-.4410		
.725			-.2050			
.750						
.800	.0000	-.1040			.0000	
.850				-.2300		
.900	.0000	.0310	-.0270			
.950			-.1330			-.4180

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TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER OFF

(UUF107,   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 953.0000 IN.	
LREF = 1328.0000 IN.	YMRP = .0000 IN.	
BREF = 1328.0000 IN.	ZMRP = 400.0000 IN.	
SCALE = 0.190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	GP1 =	.000
GY1 =	.000	GP2 =	.000
GY2 =	-3.500	GP3 =	.000
GY3 =	3.500	RUDDER =	.000

MACH (1) = .905   BETA (1) = -6.080

SECTION (1)UPPER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6720	.7800	.8870
x/c						
.050	.0000		-.0800	-.0830	.0000	-.2320
.250			-.3500			
.400		-.2990				
.550	.0000		-.4790	-.5130		
.600				-.5820		
.700			-.3820			-.3100
.725						
.750	.0000		-.4700		.0000	
.800						
.850		-.1580				
.900	.0000		.0180	-.0590		
.950	.0000	-.0070		.0470		-.0760

MACH (1) = .911   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0000		-.1790	-.1470	.0000	-.3040
.250			-.3990			
.400		-.3260				
.550	.0000		-.4730	-.5290		
.600				-.5830		
.700			-.3140			-.3830
.725						
.750	.0000		-.4520		.0000	
.800						
.850		-.1110				
.900	.0000		.0330	-.0420		
.950	.0000	.0320		.0670		-.0860

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER OFF   (UJF107)

MACH (1) = .900   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2460	-.2380		-.3680
.250			-.4930			
.400	.0000	-.3640	-.4820	-.6020	.0000	
.550				-.6040		
.600						-.3410
.700			-.1820	-.2360		
.725						
.750	.0000	-.0590			.0000	
.800						
.850				-.0130		
.900			.0670	.0810		-.0760
.950	.0000	.0410				

MACH ( ) = .901   BETA (4) = 3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2920	-.2800		-.3870
.250			-.5630			
.400	.0000	-.3760	-.4470	-.6260	.0000	
.550				-.5910		
.600						-.3510
.700			-.0570	-.1140		
.725						
.750	.0000	.0170			.0000	
.800						
.850				.0630		
.900			.1120	.1360		-.0190
.950	.0000	.0870				

MACH (1) = .903   BETA (5) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.3430	-.3590		-.4020
.250			-.5780			
.400	.0000	-.3760	-.3580	-.7870	.0000	
.550				-.3640		
.600						-.4290

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 (A36 O1 T1 S) UPPER WING POWER OFF

(UUF107)

MACH (1) = .903   BETA (5) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C

.700				-.0490	
.725		-.0120			
.750	.0000				.0000
.800		.0670			
.850			.1020		
.900	.0000	.1220	.1370		
.350			.1320	-.0820	

CAL T14-053 1A36 O1 T1 S1   UPPER WING   POWER ON

(UUF108)   (09 OCT 73)

REFERENCE DATA		
SREF = 2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF = 1328.0000 IN.	YMRP =	.0000 IN.
BREF = 1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE = .0190 SCALE		

PARAMETRIC DATA		
ALPHA =	.000	OPR = 28.310
SRMPR =	2.000	GP1 = .000
GY1 =	.000	GP2 = .000
GY2 =	-3.500	GP3 = .000
GY3 =	3.500	RUDDER = .000

MACH (1) = .901   BETA (1) = -6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0650	-.0580	.0000	-.2400
.250		-.2760	-.3320	.0000		
.400	.0000		-.4650	-.5030		
.550			-.5700			-.3300
.600						
.700				-.4020		
.725		-.1560	-.4680		.0000	
.750	.0000					
.800						
.850				-.0430		-.0630
.900	.0000	.0210	.0270	.0620		
.950						

MACH (1) = .869   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1760	-.1350	.0000	-.3200
.250		-.3480	-.4090	.0000		
.400	.0000		-.4980	-.5570		
.550				-.6170		-.3740
.600						
.700			-.3830	-.3150		
.725		-.1280			.0000	
.750	.0000					
.800						
.850				-.0430		-.1090
.900	.0000	.0180	.0230	.0650		
.950						

(UUF108)

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TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 C1 T1 S1   UPPER WING   POWER ON

MACH (1) = .900   BETA (3) = .000

DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2170	-.2090	.0000	-.3530
.250		-.3460	-.4370	-.5730		
.400	.0000		-.4490	-.5840		-.3460
.550				-.2140		
.600			-.1660		.0000	
.700						
.725						
.750	.0000	-.0370		.0120		-.0420
.800			.0840			
.850						
.900						
.950	.0000	.0690		.1120		

MACH (1) = .896   BETA (4) = 3.060

DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2820	-.2920	.0000	-.3920
.250		-.3700	-.5270	-.6250		
.400	.0000		-.4350	-.5900		-.3590
.550				-.0870		
.600						
.700			-.0540		.0000	
.725						
.750	.0000	.0410		.0880		-.0030
.800						
.850						
.90U		.1040	.1230	.1590		
.950	.0000					

MACH (1) = .902   BETA (5) = 6.090

DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.3340	-.3670	.0000	-.3960
.250		-.3640	-.5580	-.8040		
.400	.0000		-.3030	-.3610		-.4350
.550						
.600	.0000					

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TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF10B)

MACH (1) =   .902   BETA (5) =   6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5390	.6730	.7800	.8870
X/C						
.700				-.0280		
.725			.0000		.0000	
.750	.0000					
.800		.0910				
.850			.1520	.1290		
.900	.0500	.1510				-.1210
.950				.1690		

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON

REFERENCE DATA

SREF = 2690.0000 SQ.FT.		XMRP =	953.0000 IN.
LREF = 1328.0000 IN.		YMRP =	.0000 IN.
BREF = 1328.0000 IN.		ZMRP =	400.0000 IN.
SCALE = .0190 SCALE			

PARAMETRIC DATA   (UUF109)

BETA	.000	OPR	36.200
SRMPR	2.330	GP1	11.000
GP2	11.000	GV2	-3.500
GP3	11.000	GV3	3.500
GP4	7.000	GP5	7.000

MACH (1) = 1.204   ALPHA (1) = -.120

SECTION (1) ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000					
.250		.0400	.0210			
.400		-.2810				
.550	.0000	-.2740			.0040	
.600			-.4180			
.700	.0000	-.3090	-.4370	.0000		
.725						
.750	.0000	-.1380	-.2710		-.5030	
.800		-.1410				
.850	.0000			.0000		
.900	.0000	-.0240	-.0690	-.1220		-.2350
.950			.0210			

MACH (1) = 1.203   ALPHA (2) = 4.040

SECTION (1) ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000					
.250		-.1550	-.1630			
.400		-.3850				
.550	.0000	-.3310			-.1890	
.600			-.5640			
.700	.0000	-.4300	-.5320	.0000		
.725						
.750	.0000	-.2240	-.4470		-.6230	
.800		-.1730				
.850	.0000			.0000		
.900	.0000	-.0460	-.1100	-.2330		-.4640
.950			-.0990			

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TABULATED DATA FOR CAL T14-053 (1A36)

MACH (1) = 1.207   ALPHA (3) = 5.920   CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF109)

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2290	-.2480	.0000	-.2630
.250			-.5060			
.400		-.3540		-.6060		
.550	.0000		-.4640	-.5940		
.600						-.6710
.700						
.725			-.2720	-.5150		
.750						
.800	.0000				.0000	
.850		-.1940		-.2800		
.900						-.5060
.950	.0000	-.0570	-.1410	-.1800		

CAL T14-053 (A36 0: 7: S1　UPPER WING　POWER ON　　　(CONFIG)　(09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP = 953.0000 IN.
LREF =	1328.0000 IN.	YMRP = .0000 IN.
BREF =	1328.0000 IN.	ZMRP = 400.0000 IN.
SCALE =	.0190 SCALE	

MACH (1) = 1.202　　BETA (1) = -6.080

SECTION (1)ORBITER WING　　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8970
X/C						
.050	.0000		-.0020	.0660	.0000	.0040
.250			-.2340			
.400		-.2570		-.3670		
.550	.0000		-.1190	-.2060		
.600						-.5060
.700				-.2050		
.725						
.750	.0000		-.1860		.0000	
.800		-.2070				
.850				-.1830		
.900			-.1460			-.0810
.950	.0000	-.0690		-.0440		

MACH (1) = 1.209　　BETA (2) = -3.040

SECTION (1)ORBITER WING　　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8970
X/C						
.050	.0000		.0050	.0370	.0000	.0140
.250			-.2650			
.400			-.1850	-.3360		
.550	.0000	-.2660		-.4200		
.600						-.5090
.700				-.2190		
.725						
.750	.0000		-.1660		.0000	
.800		-.1840				
.850				-.1540		
.900			-.1110			-.1850
.950	.0000	-.0550		-.0100		

CAL T14-053 IA36 O1 T1 S1　UPPER WING　POWER ON　　　(UUF110)

MACH (1) = 1.207　BETA (3) =　.000

SECTION (1)ORBITER WING　　　　　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0410	.0330		.0050
.250			-.2730		.0000	
.400	.0000	-.2690		-.4150		
.550			-.3080	-.4330		
.600						-.5060
.700				-.2700		
.725			-.1400			
.750	.0000				.0000	
.800		-.1380				
.850				-.1160		
.900			-.0620			-.2340
.950	.0000	-.0200		.0240		

MACH (1) = 1.210　BETA (4) = 3.050

SECTION (1)ORBITER WING　　　　　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0210	.0140		.0070
.250			-.3140		.0000	
.400	.0000	-.2830		-.4360		
.550			-.3800	-.4710		
.600						-.5620
.700				-.3520		
.725			-.1360			
.750	.0000				.0000	
.800		-.0960				
.850				-.1360		
.900			-.0130			-.3300
.950	.0000	.0160		.0140		

MACH (1) = 1.204　BETA (5) = 6.080

SECTION (1)ORBITER WING　　　　　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0380	-.0140		.0080
.250			-.3880		.0000	
.400	.0000	-.3250		-.5300		
.550			-.4270	-.5420		
.600						-.5750

DATE 05 NOV 75 TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 OI TI SI UPPER WING POWER ON (JUF1:0)

MACH (1) = 1.204 BETA (5) = 6.080

SECTION (1)ORBITER WING DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C						
.700						
.725			-.1830	-.4390		
.750						
.800	.0000	-.0730			.0000	
.850						
.900	.0000		.0000	-.2000		
.950		.0630		-.1020		-.4570

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF111)   (09 OCT 73)

REFERENCE DATA   PARAMETRIC DATA

SREF = 2690.0000 SQ.FT.   XMRP = 953.0000 IN.
LREF = 1328.0000 IN.   YMRP =   .0000 IN.
BREF = 1328.0000 IN.   ZMRP = 400.0000 IN.
SCALE =   .0190 SCALE

BETA =	.000		OPR =	28.310
SRMPR =	2.020		GP1 =	11.000
GP2 =	11.000		GY2 =	-3.500
GP3 =	11.000		GY3 =	3.500
GP4 =	7.000		GP5 =	7.000

MACH (1) =   .900   ALPHA (1) =   -8.110

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.2860	.2780		.1740
.250			-.1000		.0000	
.400		-.1320		-.3350		
.550	.0000		-.3200	-.4220		
.600						-.6000
.700				-.1840		
.725			-.1580			
.750	.0000				.0000	
.800		-.0070				
.850				.1050		
.900			.0920			
.950	.0000	.0460		.1350		.1120

MACH (1) =   .899   ALPHA (2) =   -4.120

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0870	.0760		-.0180
.250			-.2790		.0000	
.400		-.2230		-.4460		
.550	.0000		-.3900	-.5170		
.600						-.6240
.700				-.3170		
.725			-.2890			
.750	.0000				.0000	
.800		-.0370				
.850				.0590		
.900			.0840			
.950	.0000	.0490		.1250		.0590

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 784

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF:111)

MACH (1) = .904   ALPHA (3) = -.100

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1950	-.1690		-.3330
.250			-.4380		.0000	
.400		-.3280		-.5880		
.550	.0000		-.4430	-.5740		
.600						-.5070
.700			-.3080	-.2460		
.725						
.750	.0000				.0000	
.800		-.0420				
.850			.0700	.0080		
.900						-.0560
.950	.0000	.0630		.1110		

MACH (1) = .901   ALPHA (4) = 3.970

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.4570	-.5430		-.6210
.250			-.6410	-.8500	.0000	
.400		-.4300		-.6500		
.550	.0000		-.5150	-.2290		-.5910
.600						
.700			-.1430			
.725						
.750	.0000				.0000	
.800		-.0620				
.850			.0390	-.0580		
.900						-.4030
.950	.0000	.0910		.0420		

MACH (1) = .902   ALPHA (5) = 5.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7600	.8870
X/C						
.050	.0000		-.5730	-.6700		-.7340
.250			-.7530	-.9370	.0000	
.400		-.5180		-.5310		
.550	.0000		-.4890			-.5800
.600						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)   PAGE 785

                                  CAL T14-053 IA36 O1 T1 S1   UPPER WING   POWER ON   (UUF111)

MACH (1) =   .902   ALPHA (5) =   5.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
 .700
 .725   -.3180
 .750   -.1670   .0000
 .800   .0000   -.0370
 .850   -.1790
 .900   .0000   .0920   .0400
 .950   -.0560   -.5110

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF112)   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.   XMRP = 953.0000 IN.
LREF = 1328.0000 IN.   YMRP =   .0000 IN.
BREF = 1328.0000 IN.   ZMRP = 400.0000 IN.
SCALE =   .0190 SCALE

PARAMETRIC DATA

ALPHA =   .000   GPR = 28.310
SRMPR = 2.020   GP1 = 11.000
GP2   = 11.000   GY2 = -3.500
GP3   = 11.000   GY3 = 3.500
GP4   = 7.000   GP5 = 7.000

MACH (1) = .901   BETA (1) = -6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

x/c	ETA .2990	.4270	.5340	.6730	.7800	.8870
.050	.0000		-.0340	-.0670		-.1980
.250			-.3220		.0000	
.400	.0000	-.2830	-.4630	-.5070		
.550				-.5710		-.6440
.600						
.700			-.6030	-.6330		
.725						
.750	.0000				.0000	
.800		-.2530				
.850						
.900	.0000	-.0040	-.0070	-.0720		-.1010
.950	.0000			.0380		

MACH (1) = .904   BETA (2) = -3.05C

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

x/c	ETA .2990	.4270	.5340	.6730	.7800	.8870
.050	.0000		-.1450	-.1370		-.2940
.250			-.3780		.0000	
.400	.0000	-.3200	-.4710	-.5320		
.550				-.5850		-.6680
.600						
.700			-.5550	-.4570		
.725						
.750	.0000				.0000	
.800		-.1560				
.850						
.900	.0000	.0340	.0100	-.0490		-.1040
.950	.0000			.0450		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UJF112)

MACH (1) = .902   BETA (3) = .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1850	-.2050		-.3340
.250			-.4540	.0000		
.400	.0000	-.3420	-.4580	-.5830		
.550				-.5840		-.5010
.600						
.700			-.2890	-.2960		
.725						
.750	.0000		-.0670		.0000	
.800						
.850			.0630			
.900	.0000	-.0500		-.0170		-.0820
.950			.0890			

MACH (1) = .900   BETA (4) = 3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2590	-.2750		-.3810
.250			-.5400	.0000		
.400	.0000	-.3570	-.4310	-.6350		
.550				-.5770		-.3560
.600						
.700			-.0620	-.0950		
.725						
.750	.0000		.0410		.0000	
.800						
.850			.0800			
.900	.0000	.1040		.1160		.0080
.950			.1510			

MACH (1) = .899   BETA (5) = 6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.3310	-.3500		-.3910
.250			-.5650	.0000		
.400	.0000	-.3630	-.3140	-.7900		
.550				-.4040		-.4280
.600						

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O1 T1 S1   UPPER WING   POWER ON

(UUF(12)

MACH (1) = .899   BETA (5) = 6.090

DEPENDENT VARIABLE CP

SECTION (1)ORBITER WING

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C						
.700						
.725		.0820	-.0070	-.0340	.0000	
.750	.0000					
.800				.1300		
.850		.1410	.1400	.1660		
.900	.0000				-.0500	
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-C53 [A36 01 T1 S1] UPPER WING POWER ON   (UUF113)   (09 OCT 73)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP = 953.0000 IN.
LREF	=	1328.0000 IN.	YMRP = .0000 IN.
BREF	=	1328.0000 IN.	ZMRP = 400.0000 IN.
SCALE	=	.0190 SCALE	

PARAMETRIC DATA

BETA	=	.000	OPR = 36.200
SRMPR	=	2.330	GP1 = -11.000
GP2	=	-8.000	GY2 = -3.500
GP3	=	-7.000	GY3 = 3.500
GP4	=	-7.000	GP5 = -7.000

MACH (1) = 1.204   ALPHA (1) = -8.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.3210	.3680	.0000	.3360
.250			-.0640			
.400	.0000	-.0230		-.1370		
.550			.0250	.0030		
.600						-.1720
.700	.0000		-.0850	-.1170		
.725						
.750	.0000	-.0610			.0000	
.800				-.0970		
.850			.0280			-.0040
.900				.0910		
.950	.0000	.0990				

MACH (1) = 1.209   ALPHA (2) = -4.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.1810	.2240	.0000	.1870
.250			-.1550			
.400	.0000	-.1780		-.2950		
.55C			-.0490	-.1860		
.600						-.4320
.700	.0000		-.1100	-.1450		
.725						
.750	.0000	-.0960			.0000	
.800				-.1060		
.850			-.0180			.0030
.900				.0710		
.950	.0000	.0300				

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S;   UPPER WING   POWER ON   (UUF(13)

MACH (1) =   1.209   ALPHA (3) =   .010

SECTION ( )ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0380	.0210	.0000	.0030
.250		-.2710	-.2750			
.400	.0000		-.3270	-.4140		
.550				-.4370		-.5060
.600						
.700			-.1370	-.2700		
.725						
.750	.0000				.0000	
.800		-.1340				
.850				-.1150		
.900		-.0630				
.950	.0000	-.0130		.0310		-.2370

MACH (1) =   1.201   ALPHA (4) =   3.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1650	-.1700	.0000	-.1940
.250			-.4150			
.400	.0000	-.3340	-.4430	-.5700		
.550				-.5450		
.600				-.4840		-.6270
.700			-.2260			
.725						
.750	.0000				.0000	
.800		-.1830				
.850				-.2410		
.900		-.0470				
.950	.0000		-.1080	-.1010		-.5640

MACH (1) =   1.204   ALPHA (5) =   6.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2370	-.2580	.0000	-.2720
.250			-.5080			
.400	.0000	-.3530	-.4690	-.6150		
.550				-.6150		
.600						-.6800

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 79:

                                CAL T14-053 1A36 O1 T1 S1   UPPER WING   POWER ON   (UUF113)

MACH (1) = 1.204   ALPHA (5) =   6.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA   .2990   .4270   .5340   .6730   .7800   .8870

X/C
.700
.725   -.2690   -.5430
.750   .00C0   -.2080   -.2690   .0000
.800
.850   -.1320   -.2730
.900   .0000   -.0570   -.1320   -.1680   -.6220
.950

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF114)   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 953.0000 IN.
LREF = 1328.0000 IN.	YMRP = .0000 IN.
BREF = 1328.0000 IN.	ZMRP = 400.0000 IN.
SCALE = .0190 SCALE	

PARAMETRIC DATA

ALPHA	=	.000	OPR = 36.200
SRMPR	=	2.330	GP1 = -11.000
GP2	=	-8.000	GY2 = -3.500
GP3	=	-8.000	GY3 = .500
GP4	=	-7.000	GY5 = .000

MACH (1) = 1.207   BETA (1) = -6.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0060	.0570	.0000	.0050
.250			-.2390			
.400		-.2550				
.550	.0000		-.1320	-.3720		
.600				-.2620		-.5050
.700				-.2000		
.725			-.1840			
.750	.0000				.0000	
.800		-.2070				
.850				-.1830		
.900	.0000		-.1470			-.0910
.950	.0000	-.0690		-.0490		

MACH (1) = 1.203   BETA (2) = -3.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0090	.0230	.0000	-.0050
.250			-.2810			
.400		-.2780		-.4060		
.550	.0000		-.2090	-.4350		
.600						-.5210
.700				-.2310		
.725			-.1730			
.750	.0000				.0000	
.800		-.1880				
.850				-.1590		
.900	.0000		-.1180			-.1980
.950	.0000	-.0580		-.0080		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA3E)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF114)

MACH (1) =   1.200   BETA (3) =   .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0250	.0080	.0000	-.0100
.250			-.2840			
.400		-.2820		-.4270		
.550	.0700		-.3450	-.4440		
.600						-.5230
.700			-.1440	-.2850		
.725						
.750	.0000	-.1470			.0000	
.800						
.850			-.0720	-.1330		
.900						-.2530
.950	.0000	-.0290		.0190		

MACH (1) =   1.204   BETA (4) =   3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7900	.8870
X/C						
.050	.0000		.0010	.0040	.0000	.0010
.250			-.3300			
.400		-.2850		-.4480		
.550	.0000		-.3910	-.4800		
.600						-.5570
.700			-.1440	-.3640		
.725						
.750	.0000	-.0980			.0000	
.800						
.850			-.0170	-.1410		
.900						-.3710
.950	.0000	.0120		.0040		

MACH (1) =   1.202   BETA (5) =   6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0410	-.0170	.0000	.0040
.250			-.3920			
.400		-.3360		-.5310		
.550	.0000		-.4310	-.5540		
.600						-.5800

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O1 T1 S1   UPPER WING   POWER ON

(UUF114)

MACH (1) =   1.202   BETA (5) =   6.C80

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.700						
.725			-.1810	-.5120		
.750						
.800	.5700	-.0900			.0000	
.850						
.900	.0000		.0000	-.1300		
.950	.0000	.0530		-.0810		-.5030

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O1 T1 S1   UPPER WING POWER ON   (UUF115)   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 953.0000 IN.
LREF = 1328.0000 IN.	YMRP = .0000 IN.
BREF = 1328.0000 IN.	ZMRP = 400.0000 IN.
SCALE = .0190 SCALE	

PARAMETRIC DATA

BETA =	.000	OPR =	28.310
SRMPR =	2.000	GP1 =	-11.000
GP2 =	-8.000	GY2 =	-3.500
GP3 =	-6.000	GY3 =	3.500
GP4 =	-7.000	GP5 =	-7.000

MACH (1) = .902   ALPHA (1) = -8.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0000		.2790	.2780		.1740
.250			-.1080		.0000	
.400		-.1300				
.550	.0000		-.3200	-.3350		
.600				-.4230		-.5970
.700				-.3150		
.725						
.750	.0000		-.1960			
.800		-.0220			.0000	
.850						
.900	.0000		.0850	.0900		
.950		.0440		.1290		.1130

MACH (1) = .904   ALPHA (2) = -3.970

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
x/c						
.050	.0000		.0850	.0840		-.0230
.250			-.2860		.0000	
.400		-.2230				
.550	.0000		-.3870	-.4350		
.600				-.5150		-.6430
.700				-.4190		
.725						
.750	.0000		-.4160			
.800		-.0530			.0000	
.850						
.900	.0000		.0810	.0430		
.950		.0510		.119U		.0500

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF115)

MACH (1) = .902   ALPHA (3) = .070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2230	-.2010		-.3530
.250		.0000	-.4610		.0000	
.400		-.3430	-.4600	-.5710		
.550	.0000			-.5760		-.6040
.600						
.700			-.4080	-.3250		
.725						
.750	.0000				.0000	
.800		-.0880				
.850			-.0200			
.900	.0000	.0510	.0660	.0890		-.0810
.950						

MACH (1) = .903   ALPHA (4) = 3.860

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.4660	-.5540		-.6110
.250		.0000	-.6400		.0000	
.400		-.4370	-.5320	-.8500		
.550	.0000			-.6400		-.5830
.600						
.700			-.1240	-.2020		
.725						
.750	.0000				.0000	
.800		-.0490				
.850			-.0330			
.900	.0000	.0790	.0540	.0760		-.3630
.950						

MACH (1) = .900   ALPHA (5) = 5.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.5860	-.5940		-.7530
.250		.0000	-.7710		.0000	
.400		-.5330	-.5010	-.9900		
.550	.0000			-.5450		-.5980
.600						

DATE 05 NOV 75　　　TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 OI TI SI　　UPPER WING　POWER ON　　(UUF(15))

MACH (I) = .900　ALPHA (5) = 5.990

SECTION (1)ORBITER WING　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725	.0000	-.0550	-.1890	-.3310		
.750					.0000	
.800						
.950						
.900	.0000	.0860	.0360	-.1800		-.5480
.950				-.0380		

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER ON   (UUF116)   (09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALF =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	OPR =	28.310
SRMPR =	2.020	GP1 =	-11.000
GP2 =	-8.000	GY2 =	-3.500
GP3 =	-8.000	GY3 =	3.500
GP4 =	-7.000	GP5 =	-7.000

MACH (1) =   .901   BETA (1) = -6.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0530	-.0710		-.2250
.250			-.3270		.0000	
.400		-.2850	-.5080			
.550	.0000		-.4710	-.5790		
.600				-.6810		-.7140
.700						
.725						
.750	.0000		-.6280		.0000	
.800		-.3410				
.850						
.S00			-.0340	-.1020		-.1240
.950	.0000	-.0180	.0130			

MACH (1) =   .901   BETA (2) = -3.050

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1580	-.1560		-.3100
.250			-.3990		.0000	
.400		-.3280	-.5420			
.550	.0000		-.4800	-.5890		
.600				-.6310		-.7450
.700						
.725						
.750	.0000		-.5980		.0000	
.800		-.2480				
.850						
.900			-.0060	-.0920		-.1320
.950	.0000	.0050	.3270			

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

(UUF116)

CAL T14-053 IA36 01 T1 S1   UPPER WING   POWER ON

MACH (1) = .899   BETA (3) = .000

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2070	-.2080		-.3600
.250			-.4650		.0000	
.400	.0000	-.3490		-.5890		
.550			-.4630	-.5860		-.5350
.600						
.700				-.2950		
.725			-.4030			
.750	.0000				.0000	
.800		-.0710				
.850				-.0100		
.900	.0000	.0540	.0640	.0940		-.0690
.950	.0000					

MACH (1) = .899   BETA (4) = 3.060

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2890	-.2920		-.3860
.250			-.5440		.0000	
.400	.0000	-.3640		-.6540		
.550			-.4410	-.5860		
.600						-.4080
.700				-.1340		
.725			-.0980			
.750	.0000				.0000	
.800		.0210				
.850				.0670		
.900	.0000	.0960	.1050	.1490		-.0660
.950	.0000					

MACH (1) = .902   BETA (5) = 6.090

SECTION (1) ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.3390	-.3580		-.3960
.250			-.5620		.0000	
.400	.0000	-.3720		-.8240		
.550			-.3790	-.5000		
.600						-.4610

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)   PAGE 800

MACH (1) = .902   BETA (5) =   6.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725			-.0150	-.0640		
.750	.0000	.0690			.0000	
.800						
.850				.1130		
.900	.0000	.1290	.1390			-.1010
.950				.1480		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O1 T1 S1   UPPER WING   POWER OFF

(UUF117)   (09 OCT 73)

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 953.0000 IN.	
LREF = 1328.0000 IN.	YMRP = .0000 IN.	
BREF = 1328.0000 IN.	ZMRP = 400.0000 IN.	
SCALE = .0190 SCALE		

PARAMETRIC DATA

BETA = .000		GP1 = .000	
GP2 = .000		GY2 = -3.500	
GP3 = .000		GY3 = 3.500	
GP4 = .000		GP5 = .000	

MACH (1) = 1.206   ALPHA (1) = -8.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.3030	.3460	.6000	.3210
.250		-.0320	-.0680	-.1460	.0000	
.400	.0000		.0040	-.0210		
.550						-.1870
.600				-.1380		
.700						
.725	.0000		-.1020			
.750					.0000	
.800						
.850		-.0800		-.1130		
.900	.0000		.0080			-.0190
.950		.0750		.0630		

MACH (1) = 1.205   ALPHA (2) = -6.110

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.2230	.2780	.0000	.2440
.250		-.1060	-.1380	-.2510	.0000	
.400	.0000		-.0270	-.0530		
.550				-.0330		-.3620
.600				-.1580		
.700						
.725						
.750	.0000		-.1210		.0000	
.800		-.1050		-.1240		
.850						
.900	.0000		-.0190			.0300
.950		.0300		.0420		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

(UUF117:

CAL T14-053 IA36 O1 T1 S1   UPPER WING   POWER OFF

MACH (1) = 1.208   ALPHA (3) = -4.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.1480	.1910	.0000	.1640
.250			-.1810			
.400		-.1840		-.3110		
.550	.0000		-.0790	-.2210		
.600						
.700						-.4410
.725			-.1340			
.750	.0000				.0000	
.800		-.1200				
.850			-.1320			
.900	.0000	-.0050	-.0420		-.0250	
.950			.0390			

MACH (1) = 1.206   ALPHA (4) = -2.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0860	.1070	.0000	.0740
.250			-.2380			
.400		-.2370		-.3790		
.550	.0000		-.1610	-.3930		
.600						-.4840
.700				-.2100		
.750	.0000		-.1450		.0000	
.800		-.1410				
.900			-.0690	-.1260		-.1420
.950	.0000	-.0320	.0230			

MACH (1) = 1.207   ALPHA (5) = -.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0380	.0090	.0000	-.0120
.250			-.2850			
.400		-.2870		-.4300		
.550	.0000		-.3360	-.4420		
.600						-.5120

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER OFF   (UUF117)

MACH (1) = 1.207   ALPHA (5) =   -.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725						
.750			-.1510	-.2760		
.800						
.850	.0000	-.1570		.0000		
.900	.0000	-.0460	-.0800	-.1400		-.2610
.950				-.0070		

MACH (1) = 1.205   ALPHA (6) = 2.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0960	-.1000	.0000	-.1090
.250			-.3530			
.400		-.3150		-.4770		
.550	.0000		-.4150	-.4850		
.600						-.5960
.700				-.4030		
.725						
.750	.000C		-.1810		.0000	
.800		-.1710				
.850				-.1910		
.900	.0000	-.0560	-.1000			-.4400
.950	.0000			-.0530		

MACH (1) = 1.205   ALPHA (7) = 4.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1770	-.1770	.0000	-.1920
.250			-.4000			
.400		-.3390		-.5510		
.550	.0000		-.4350	-.5390		
.600						-.6230
.700				-.4970		
.725						
.750	.0000		-.2250		.0000	
.800		-.1970				
.850				-.2490		

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 O1 T1 S1   UPPER WING   POWER OFF

(UUF117)

MACH (1) = 1.205   ALPHA (7) = 4.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

E.A	.2990	.4270	.5340	.6730	.7800	.8870

X/C

	.2990	.4270	.5340	.6730	.7800	.8870
.900	.0000	-.0660	-.1160	-.1120		-.5650

MACH (1) = 1.205   ALPHA (8) = 5.960

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C

	.2990	.4270	.5340	.6730	.7800	.8870
.050	.0000		-.2510	-.2650		-.2770
.250			-.4900			
.400		-.3500		-.6070	.0000	
.550			-.4760	-.5960		
.600						-.6740
.700			-.2770	-.5530		
.725						
.750	.0000				.0000	
.800		-.2260		-.2840		
.850						
.900	.0000	-.0820	-.1410	-.1790		-.6260
.950						

MACH (1) = 1.205   ALPHA (9) = 7.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C

	.2990	.4270	.5340	.6730	.7800	.8870
.050	.0000		-.3240	-.3480		-.3780
.250			-.5530			
.400		-.3740	-.5030	-.6610	.0000	
.550				-.6850		
.600						-.7180
.700			-.3160	-.6260		
.725						
.750	.0000				.0000	
.800		-.2570		-.3190		
.850						
.900	.0000	-.0980	-.1690	-.2340		-.5760
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 [A36 01 T1 S1   UPPER WING   POWER OFF   (09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	GP1	.000
GP2 =	.000	GY2	-3.500
GP3 =	.000	GY3	3.500
GP4 =	.000	GP5	.000

MACH (1) = 1.209   BETA (1) = -8.080

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0100	.0580	.0000	.0110
.250			-.1950			
.400		-.2470		-.3530		
.550	.0000		-.1350	-.1660		
.600						-.4770
.700			-.1910	-.2120		
.725						
.750	.0000				.0000	
.800		-.2230				
.850				-.2040		
.900	.0000	-.0890	-.1530			-.0530
.950				-.0760		

MACH (1) = 1.205   BETA (2) = -6.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0230	.0420	.0000	-.0100
.250			-.2480			
.400		-.2690		-.3840		
.550	.0000		-.1710	-.3290		
.600						-.5020
.700			-.1980	-.2200		
.725						
.750	.0000				.0000	
.800		-.2180				
.850				-.1920		
.900	.0000	-.0850	-.1520			-.1100
.950				-.0580		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER OFF   (UUF:18)

MACH (1) = 1.206   BETA (3) = -4.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0220	.0280	.0000	-.0130
.250			-.2750			
.400		-.2730	-.2090	-.4090		
.550	.0000			-.4160		-.5110
.600				-.2310		
.700						
.725						
.750	.0000		-.1920		.0000	
.800		-.2060				
.850						
.900	.0000		-.1330	-.1800		-.1710
.950	.0000	-.0790		-.0420		

MACH (1) = 1.206   BETA (4) = -3.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.3340	.6730	.7800	.8870
X/C						
.050	.0000		-.0190	.0100	.0000	-.0070
.250			-.2740			
.400		-.2770	-.2350	-.4140		
.550	.0000			-.4300		-.5120
.600				-.2400		
.700						
.725						
.750	.0000		-.1830		.0000	
.800		-.1990				
.850						
.900	.0000		-.1240	-.1710		-.1960
.950	.0000	-.0760		-.0340		

MACH (1) = 1.206   BETA (5) = -2.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0230	.0060	.0000	-.0070
.250			-.2830			
.400		-.2910	-.2840	-.4190		
.550	.0000			-.4450		-.5140
.600						

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1　　UPPER WING　POWER OFF　　(UUF1U)

MACH (1) = 1.206　BETA (5) = -2.020

SECTION (1)ORBITER WING　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725			-.1760	-.2520		
.750						
.800	.0000					
.850		-.1650			.0000	
.900			-.1090	-.1630		
.950	.0000	-.0720	-.0290			-.2210

MACH (1) = 1.205　BETA (6) = .000

SECTION (1)ORBITER WING　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0120	.0020		-.0160
.250			-.3850			
.400		-.2870		-.4260	.0000	
.550	.0000		-.3250	-.4110		
.600						-.5130
.700				-.2750		
.725			-.1560			
.750	.0000				.0000	
.800		-.1600				
.850				-.1400		
.900			-.0780			-.2560
.950	.0000	-.0450		-.0010		

MACH (1) = 1.205　BETA (7) = 2.020

SECTION (1)ORBITER WING　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0110	.0400		-.0110
.250			-.3180			
.400		-.2920		-.4480	.0000	
.550	.0200		-.3730	-.4720		
.600						-.5440
.700				-.3250		
.725			-.1430			
.750	.0000	-.1300			.0000	
.800				-.1440		
.850						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A35)

CAL T14-053 1A35 01 T1 S1   UPPER WING   POWER OFF   (CUF118)

MACH (1) = 1.205   BETA (7) = 2.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.900	.0000	-.0200	-.0490	-.0030		-.3490
.950						

MACH (1) = 1.207   BETA (8) = 3.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000	.0000	-.0070	-.0080	.0000	-.0100
.250			-.3380			
.400	.0000	-.2990	-.3920	-.4580		
.550				-.4790		-.5540
.600						
.700						
.725			-.1400	-.3720		
.750	.0000				.0000	
.800		-.1140				
.850			-.0330	-.1560		
.900	.0000	-.0120				-.3960
.950	.0000		-.0120	-.0180		

MACH (1) = 1.208   BETA (9) = 4.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000	.0000	-.0350	-.0140	.0000	-.0080
.250			-.3610			
.400	.0000	-.3100	-.4050	-.4680		
.550				-.4880		-.5600
.600						
.700						
.725			-.1460	-.4370		
.750	.0000				.0000	
.800		-.1060				
.850			-.0250	-.1720		-.4310
.900	.0000	.0010				
.950	.0000		.0010	-.0370		

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O1 T1 S1   UPPER WING   POWER OFF   (UUF118)

MACH (1) = 1.206   BETA (10) = 6.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0540	-.0300		-.0030
.250			-.3950			
.400	.0000	-.3380	-.4270	-.5260	.0000	
.550				-.5350		
.600				-.5080		-.5660
.700						
.725						
.750	.0000		-.1860		.0000	
.800		-.0090				
.850				-.1970		
.900	.0000		-.0110	-.0960		-.4930
.950	.0000	.0310				

MACH (1) = 1.207   BETA (11) = 8.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0700	-.0300		.0090
.250			-.4140			
.400	.0000	-.3510	-.4500	-.5320	.0000	
.550				-.5570		
.600				-.5440		-.5590
.700						
.725						
.750	.0000		-.2140		.0000	
.800		-.0880				
.850				-.2310		
.900	.0000		-.0110	-.1580		-.4990
.950	.0000	.0540				

DATE 05 NOV 75　　　TABULATED DATA FOR CAL T14-053 (1A36)　　　PAGE 8:0

CAL T14-053 1A36 O1 T1 S1　UPPER WING　POWER OFF　　(UUF119)　(09 OCT 73)

REFERENCE DATA

SREF	=	2690.0000 SQ.FT.	XMRP	=	953.0000 IN.
LREF	=	1328.0000 IN.	YMRP	=	.0000 IN.
BREF	=	1328.0000 IN.	ZMRP	=	400.0000 IN.
SCALE	=	.0190 SCALE			

PARAMETRIC DATA

BETA	=	.000	GP1	=	.000
GP2	=	.000	GY2	=	-3.500
GP3	=	.000	GY3	=	3.500
GP4	=	.000	GP5	=	.000

MACH (1) = .903　ALPHA (1) = -6.140

SECTION (1)ORBITER WING　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.1540	.1500		.0660
.250			-.2260		.0000	
.400		-.2010		-.4230		
.550	.0000		-.3930	-.4880		
.600						-.6370
.700				-.3990		
.725			-.3140			
.750	.0000				.0000	
.800		-.0560				
.850			.0690	.0490		
.900	.0000	.0220		.1010		.0570
.950						

MACH (1) = .903　ALPHA (2) = -4.040

SECTION (1)ORBITER WING　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0500	.0540		-.0500
.250			-.3150		.0000	
.400		-.2500		-.4620		
.550	.0000		-.4250	-.5350		
.600						-.6600
.700				-.4230		
.725			-.4400			
.750	.0000				.0000	
.800		-.0740				
.850			.0560	.0120		
.900	.0000	.0230		.0850		.0060
.950						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 T1 S1   UPPER WING   POWER OFF   (UUF119)

MACH (1) = .901   ALPHA (3) = -2.060

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0840	-.0590		-.1910
.250			-.3830		.0000	
.400		-.3010	-.4570	-.5170		
.550				-.5770		
.600						-.7220
.700			-.4150	-.4230		
.725						
.750	.0000				.0000	
.800		-.0950				
.850						
.900			.0500	-.0270		
.950	.0000	.0190	.0500	.0550		-.0400

MACH (1) = .904   ALPHA (4) = .010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2300	-.2160		-.3650
.250			-.4800		.0000	
.400		-.3730	-.4840	-.5950		
.550				-.5990		
.600						-.6640
.700			-.4470	-.3570		
.725						
.750	.0000				.0000	
.800		-.1030				
.850						
.900			.0380	-.0500		
.950	.0000	.0260	.0500	.0500		-.1130

MACH (1) = .902   ALPHA (5) = 2.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.3650	-.3820		-.4970
.250			-.5710		.0000	
.400		-.4000	-.5230	-.7290		
.550				-.6310		
.600						-.5100

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 01 T1 S1   UPPER WING   POWER OFF   (UUF119)

MACH (1) = .902   ALPHA (5) =   2.010

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725			-.2590	-.2520		
.750	.0000	-.0900				
.800					.0000	
.850	.0000	.0380	.0340	-.0520		
.900						
.950				.0500		-.3010

MACH (1) = .903   ALPHA (6) =   4.000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.4720	-.5680		-.6280
.250			-.6430		.0000	
.400		-.4570				
.550	.0000		-.5390	-.8580		
.500				-.6700		-.6150
.700				-.2470		
.725			-.1760			
.750	.0000	-.0850			.0000	
.800				-.0770		
.850						
.900	.0000	.0600	.0250	.0180		-.4550
.950						

MACH (1) = .905   ALPHA (7) =   6.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.5910	-.6760		-.7410
.250			-.7500		.0000	
.400		-.5300		-.9600		
.550	.0000		-.5460	-.5280		-.6010
.600				-.3230		
.700			-.1870			
.725						
.750	.0000	-.0530			.0000	
.800				-.1580		
.850						

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (IA36)

CAL T14-053 IA36 O1 T1 S1   UPPER WING   POWER OFF   (UUF119)

MACH (1) = .905   ALPHA (7) = 6.020

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C

.900	.0000	.0740	.0350	-.0400		
.950						-.5300

MACH (1) = .902   ALPHA (8) = 7.990

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C

.050	.0000		-.7120	-.8230		-.8880
.250			-.8510			
.400		-.6320	-.3680	-.7080	.0000	
.550				-.5820		
.600						-.5950
.700						
.725						
.750	.0000		-.3080	-.4730		
.800					.0000	
.850	-.1030					
.900	.0000	-.0310		-.3540		-.5440
.950		.0280		-.2400		

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER OFF   (UUF120)   (09 OCT 73)

REFERENCE DATA

SREF =	2690.0000 SQ.FT.	XMRP =	953.0000 IN.
LREF =	1328.0000 IN.	YMRP =	.0000 IN.
BREF =	1328.0000 IN.	ZMRP =	400.0000 IN.
SCALE =	.0190 SCALE		

PARAMETRIC DATA

ALPHA =	.000	GP1 =	.000
GP2 =	.000	GY2 =	-3.500
GP3 =	.000	GY3 =	3.500
GP4 =	.000	GP5 =	.000

MACH (1) = .904   BETA (1) = -8.090

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2390	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		.0090	-.0110	.0000	-.1550
.250			-.2940			
.400		-.2780				
.550			-.4860	-.4950		
.600				-.5660		
.700				-.6910		-.7080
.725			-.6360			
.750					.0000	
.800		-.3550				
.85L						
.900		-.0550		-.0480		-.1200
.950	.0000			-.0010		

MACH (1) = .903   BETA (2) = -6.070

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.0870	-.0950	.0000	-.2380
.250			-.3460			
.400		-.3110				
.550			-.5000	-.5290		
.600				-.5950		
.700				-.6830		-.7290
.725			-.6320			
.750					.0000	
.800		-.2960				
.850						
.900		-.0350	-.0390	-.1220		
.950	.0000			-.0130		-.1410

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER OFF   (UUF120)

MACH (1) = .901   BETA (3) = -4.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1510	-.1350		-.2890
.250			-.3790		.0000	
.400	.0000	-.3340	-.5040	-.5370		
.550				-.6060		-.7370
.600				-.6230		
.700						
.725						
.750	.0000	-.2340	-.6020		.0000	
.800						
.850				-.1080		-.1380
.900	.0000	-.0140	-.0190	.0030		
.950						

MACH (1) = .903   BETA (4) = -3.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.1770	-.1660		-.3110
.250			-.3980		.0000	
.400	.0000	-.3520	-.5540	-.5560		
.550				-.6070		-.7090
.600				-.5450		
.700						
.725						
.750	.0000	-.1990	-.5860		.0000	
.800						
.850				-.0960		-.1360
.900	.0000	-.0030	-.0060	.0120		
.950						

MACH (1) = .902   BETA (5) = -2.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2070	-.2100		-.3310
.250			-.4460		.0000	
.400	.0000	-.3650	-.5090	-.5810		
.550				-.6060		
.600						-.6990

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A36)

CAL T14-053 1A36 01 T1 S1   UPPER WING   POWER OFF   (UUF120)

MACH (1) = .902   BETA (5) = -2.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.700						
.725						
.750			-.5570	-.5150		
.800		-.1820		.0000		
.850						
.900			.0050	-.0910		
.950	.0000	-.0040		.0160		-.1300

MACH (1) = .901   BETA (6) = 2.030

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2730	-.2690	.0000	-.3980
.250			-.5180			
.400	.0000	-.3870		-.6320		
.550			-.4780	-.6060		
.600						-.4120
.700			-.1910			
.725						
.750	.0000		-.1380		.0000	
.800		-.0230		.0130		
.850						-.0450
.900			-.0820			
.950	.0000	.0530		.1030		

MACH (1) = .901   BETA (7) = 3.040

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.3130	-.2870	.0000	-.3950
.250			-.5380			
.400	.0000	-.3890		-.6750		
.550			-.4690	-.6020		
.600						-.4200
.700			-.1600			
.725						
.750	.0000		-.1080		.0000	
.800		-.0060				
.850			.0360			

DATE 05 NOV 75

TABULATED DATA FOR CAL T14-053 (1A36)

(UUF120)

CAL T14-053 1A36 O1 T1 S1   UPPER WING   POWER OFF

MACH (1) = .901   BETA (7) = 3.040

SECTION (1) ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.900	.0000	.0640	.0880	.1170		
.950						-.0610

MACH (1) = .904   BETA (8) = 4.040

SECTION (1) ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.3280	-.3110	.0000	-.3960
.250			-.5680			
.400		-.3840	-.4560	-.7360		
.550				-.5920		
.600						-.4090
.700			-.0680	-.1350		
.750	.0000				.0000	
.800		.0110				
.850			.1040			
.900	.0000	.0770		.0540		
.950				.1180		-.0710

MACH (1) = .902   BETA (9) = 6.070

SECTION (1) ORBITER WING

DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.3680	-.3560	.0000	-.4000
.250			-.5650			
.400		-.4040	-.4120	-.8170		
.550				-.5320		
.600						-.4390
.700				-.0970		
.725			-.0300			
.750	.0000				.0000	
.850		.0370		.0780		
.900			.1190			
.950	.0000	.0950		.1160		-.0720

DATE 05 NOV 75   TABULATED DATA FOR CAL T14-053 (1A35)

CAL T14-053 (A36 O1 Ti S1   UPPER WING   POWER OFF   (UUF120)

MACH (1) =   .900   BETA (10) =   8.100

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.4020	-.4280		-.4110
.250		-.6510			.0000	
.400	.0000	-.4010	-.3320	-.8460		
.550				-.3820		-.4630
.600						
.700				-.0720		
.725						
.750	.0000		-.0100		.0000	
.800		.0540				
.850						
.900	.0000		.0960			-.2010
.950	.0000	.1060	.1260	.1100		

MACH (1) =   .904   BETA (11) =   .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-.2420	-.2190		-.3660
.250		-.4730			.0000	
.400	.0000	-.3680	-.4840	-.5980		
.550				-.5930		-.6280
.600						
.700				-.3320		
.725						
.750	.0000		-.4010		.0000	
.800		-.0920				
.850						
.900	.0000			-.0440		-.0950
.950	.0000	.0260	.0420	.0580		

MACH (1) =   .048   BETA (12) =   .000

SECTION (1)ORBITER WING   DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870
X/C						
.050	.0000		-2.1930	-1.1350		-1.2240
.250		-1.9640			.0000	
.400	.0000	-2.0790		-1.1350		
.550				-1.1350		
.600	.0000	-2.3080				-1.2240

DATE 05 NOV 75　　　　TABULATED DATA FOR CAL T14-053 (1A36)

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CAL T14-053 1A36 01 T1 S1　UPPER WING　POWER OFF　　(UUF120)

MACH (I) =　.048　BETA (12) =　.000

SECTION (I)ORBITER WING　　　　DEPENDENT VARIABLE CP

ETA	.2990	.4270	.5340	.6730	.7800	.8870

X/C
.700						
.725			-1.1350	-1.1350		
.750	.0000				.0000	
.800		-2.0790				
.850				-1.0230		
.900	.0000	-1.9640		-1.1350		-1.2240
.950						